SONY

KV-D3410/11

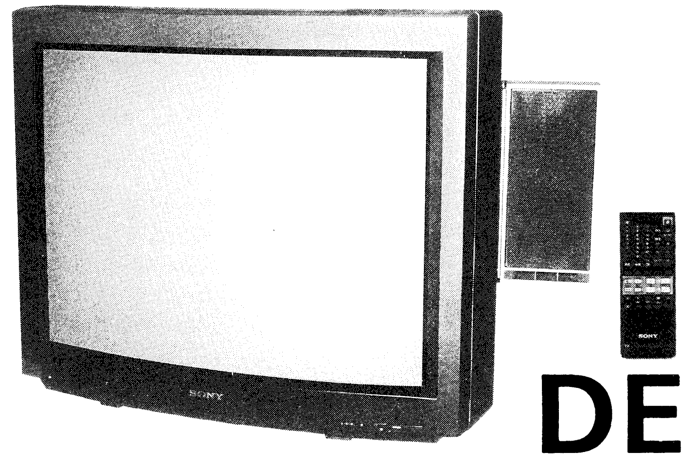
MODEL

SERVICE MANUAL

KV-D3411D
RM-684/SS-XT291

SERVICE MANUAL

AEP Model
Chassis No. SCC-C73A-A



DE-1 CHASSIS

Note: The service manual for RM-684 and SS-XT291 have been issued separately.

MODELS OF THE SAME SERIES	
KV-D3411D	

SPECIFICATIONS

Television system	B/G/H, I, L
Colour system	PAL, SECAM, NTSC$_{4.43}$, NTSC$_{3.58}$
Channel coverage	See "Receivable Channels and Channel Displays"
Picture tube	Trinitron tube Approx. 86 cm (34 inches) Approx. 80 cm (picture measured diagonally) 110 degree deflection
Inputs	⇦ 1 21-pin connector: CENELEC Standard ⇦ 2 21-pin connector: RGB input unconnected 4-pin S video input connector Audio input jacks: phono jack
Outputs	External speaker terminals: 2-pin DIN Audio output jacks: phono jack — Output level dependent upon TV settings
Sound output	40 W + 40 W (music power)
Power consumption	144wh
Dimensions	Approx. 777 × 647 × 582 mm (w/h/d)
Weight	Approx. 73 kg
Supplied accessories	RM-684 Remote Commander (1) Detachable speakers (1 set) Speaker cord with plug (2) IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

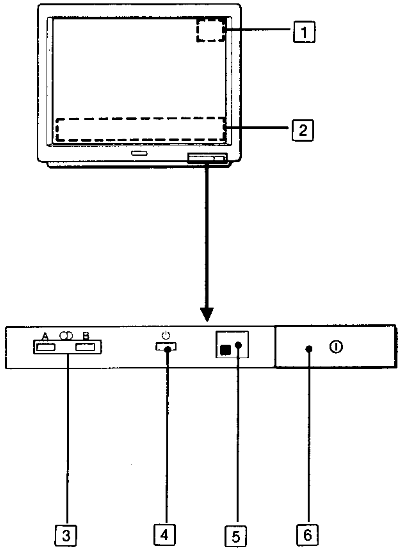
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

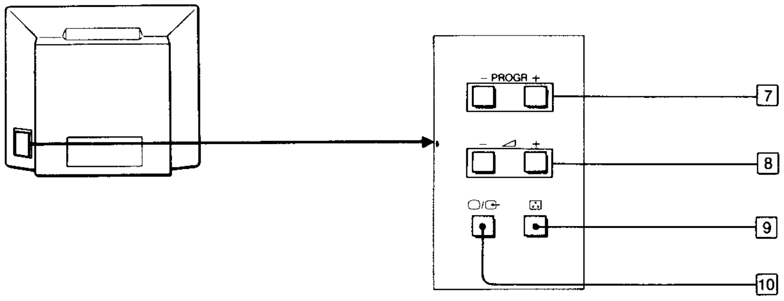
1-1. LOCATION AND FUNCTION OF CONTROLS.

On the Set

Front



Rear



1 **On-screen display**
Indicates programme numbers, channel numbers, station labels, and input modes; ⊕-1, ⊕̈, ⊕-2 and Ⓢ←.
Press ⊕ on the Remote Commander to display them on the screen.

2 **Bar display**
Indicates the picture and sound adjustment items and their levels when they are adjusted.

3 **Stereo A/B indicator**
Both indicators light up when a stereo programme is received.

4 ⏻ **Standby indicator**

5 ■ **Remote control detector**
Point the Remote Commander towards this detector.

6 ⓘ **POWER switch**
To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing this switch fully.

7 **PROGR +/– buttons**
Use to scan the available programmes, and to return to the TV mode from the standby mode when the Remote Commander is not available.

8 ◁ **VOLUME +/– buttons**

9 ⊡ **Colour system button**
Press to select the colour system.

AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

10 ○/⊕ **TV/VIDEO button**
Press to select the TV or one of the other input modes.

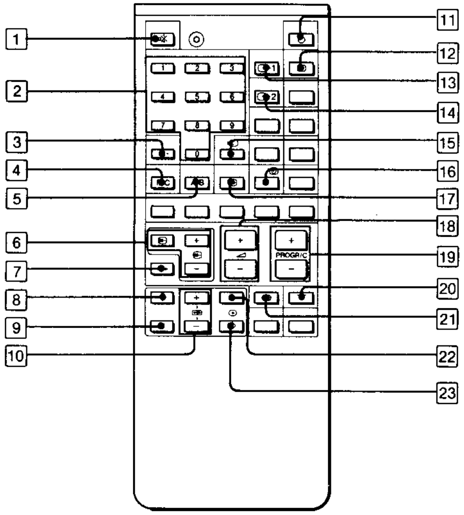
TV → ⊕-1 → ⊕̈ (RGB) → ⊕-2 → Ⓢ← (Y/C)

⊕-1	Video signal through ⍝-1 (21-pin connector) is displayed on the screen.
⊕̈	RGB signal through ⍝-1 (21-pin connector) is displayed on the screen.
⊕-2	Video signal through ⊕-2 (21-pin connector) is displayed on the screen.
Ⓢ←	S video signal through Ⓢ←(S video input connector) and ⊕-2 (21-pin connector) is displayed on the screen. When you use S video equipment, make sure that the set is in the S video mode.

S video input
Video signals may be separated into Y (luminance) and C (chrominance) signals.
Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV.
Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality.
This set is equipped with an S video input connector through which these separated signals can be input directly.
Connect the S video output connector on the VTR to the S video input on this set.

On the Remote Commander

To operate the TV with the Commander, point it toward the remote control detector. The buttons used for teletext operation are indicated in light green.
Buttons not referred to in this manual do not operate.



RM-684

1 🔇 **mute button**
Use to mute the sound.

2 **0–9 buttons**
Use to select a programme or a channel number.

3 **-/-- button**
Use to select a programme number over 9.
To select 23, press -/--, then 2 and 3.

4 **P/C (programme/channel) button**
Use to select the channel tuning mode or to return to the programme tuning mode.

5 **A/B bilingual button**
Press to select channel A (usually the local language) or B (usually the original language) of a bilingual programme.

6 **⊞, +/–, picture and sound adjustment buttons**
There are two ways to use these buttons.

1. **When watching a TV programme**
   Press ⊞ repeatedly until the on-screen display of the required item appears, i.e. ◑ picture, ◕ colour, ☼ brightness, ⛭ hue, ◫ sharpness, 𝄢 bass, 𝄞 treble or ⊿ balance.
   Adjust by pressing + or –.
2. **When presetting TV channels**
   For details, please see "To preset channels".

7 **→•← reset button**
Press to reset the picture and sound adjustment to the factory-set levels.

8 **-◇ Preset button**
Press to display a preset mode.

9 **C (clear) button**
Press to cancel a station memory content.

10 **⇹ +/– Search button**
Used when presetting channels.

11 **⏻ standby button**
Press to turn the set into the standby mode. Use this facility to turn off the set for short periods of time.
To return to TV mode, press TV or the programme number on the Remote Commander.

12 **▢ TV button**
Press to change to TV mode from standby, video input or teletext mode.

13 **⇨-1 input button**
Press to view the input picture coming in through the ⇨-1 connector.
Each time this button is pressed, ⇨-1 and ⇨ will appear alternately.
Press ▢ or the programme number to return to the TV mode.

14 **⇨-2 input button**
Press to view the input picture coming in through the ⇨-2 or Ⓢ← connectors. Each time this button is pressed, ⇨-2 and Ⓢ← will appear alternately.
Press ▢ or the programme number to return to the TV mode.

15 **⇶ CATV button**
Use to select CATV channels.

16 **◎ Time button**
In TV mode, press to display the present time on the screen, and again to make it disappear. This function is available only when the teletext service is broadcast in the selected channel.

17 **⊕ On-screen display button**
Press to make the display appear on the screen.
Press again to make it disappear.

18 **⊿ Volume +/– buttons**

19 **PROGR/C +/– buttons**
Used to scan the available programmes or channels.

20 **⊔ loudness button**
Press to emphasize high and low tones. Press again to restore the normal sound. (The indicator on the screen is ⊔ .)

21 **⊜ space sound button**
Press to obtain special acoustic effects. Press again to restore normal sound. (The indicator on the screen is ⊜ .)

22 **⊛ TV system select button**
Press to select the TV system.

B/G → L → I
↑_________↵

23 **◇ store button**
Used when presetting channels.

1-2. PREPARATION FOR USE.

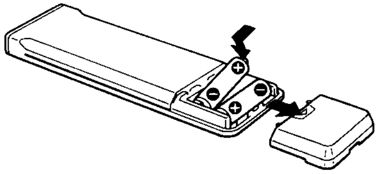
1 **Connect the aerial to the ⫪ socket on the rear of the set.**
This socket receives the standard 75-ohm aerial plug.

2 **Plug in the set.**

3 **Insert two R6 batteries checking the correct polarity.**
See the illustration below.

4 **Press Ⓘ power switch on the set.**

5 **Preset the available channels.** (See "To Preset Channels".)

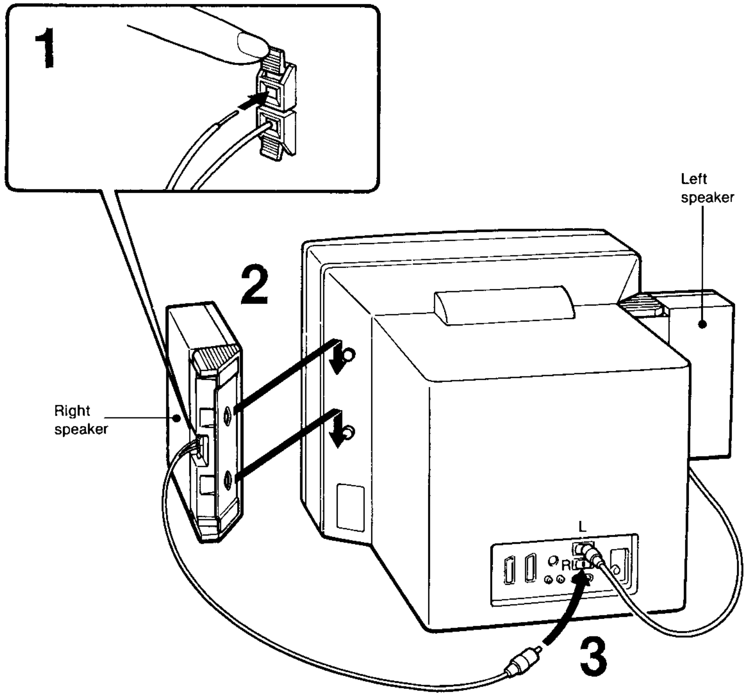


1-3. HOW TO ATTACH THE SPEAKERS.

1 Connect the gray cord to the red terminal on the speaker.
Connect the white striped cord to the black terminal.

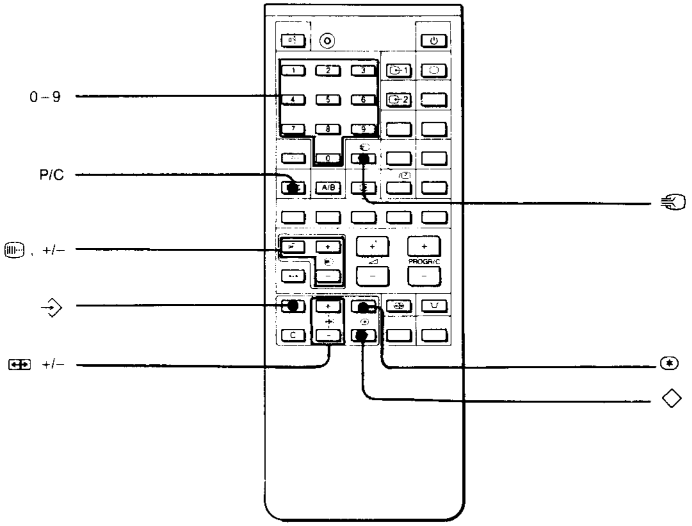
2 Attach the right and left speakers to the set.

3 Connect the left speaker cord to 🔈 L/G/S terminal and the right speaker cord to 🔈 R/D/D terminal on the rear of the set.


1
2
Left speaker
Right speaker
L
R
3

1-4. TO PRESET CHANNELS.

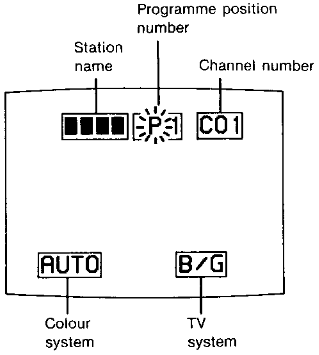
Buttons used for presetting channels


0 – 9
P/C
+/–
+/–
A/B
PROG/A/C

You can preset a channel to a desired programme position.
Use the buttons on the Remote Commander.

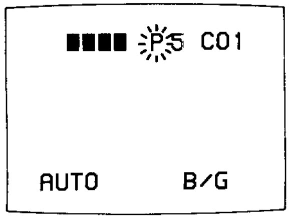
Example: Preset channel 32 to programme position 5.

1 **Press ⇨ (preset).**
"P" flashes.

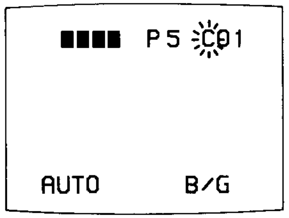


Press ▣ button on the right hand side of the TV to set the colour system to AUTO.
Press ⊛ on the Remote Commander to select the appropriate TV system.

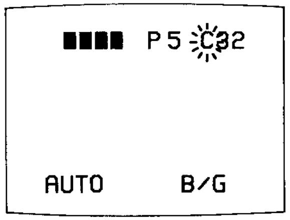
2 **Select a desired programme position number by pressing a number button on the Remote Commander.**



3 **Press P/C.**
"C" flashes.



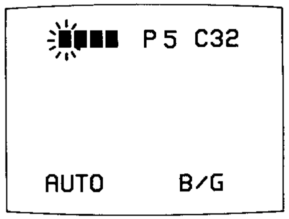
4 **Select a desired channel number by pressing a number button on the Remote Commander.**
e.g. To tune in channel number 32, press 3 and then 2.
To tune in channel number 4, press 0 and then 4.



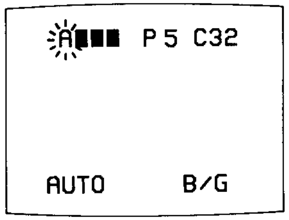
If you don't know the channel number,
tune in a higher or lower numbered station by pressing ⇆ +/–. Channel searching starts. The channel number increases or decreases until a TV station is tuned in.

To tune in a CATV channel,
Press ☞ , then select a desired a channel number by pressing a number button.

5 **If you want to give a station a name**
Press ▤ .
The first position of the station name flashes.



Select a desired character by pressing ▤ +/–.
The numbers 0–9 and the letters A–Z will appear sequentially.



To make the second position flash, press ▤ again and select a desired character by pressing ▤ +/–.
Thus four characters can be displayed by repeating the steps above.
To make a position blank, leave ■ as is.

When the last column flashes, press ▤ .
"P" starts flashing.

6 **After you have selected all the numbers and characters displayed on the screen, press ◇ to store the data.**
"P" starts flashing.
If you want to preset more channels, repeat steps 2 to 6.

7 **Press ⇨ . The display will return to the previous state.**

Note

If you want to skip a certain programme position:
1. Press ⇨ .
2. Select a programme position number to be skipped.
3. Press C and then ◇ .

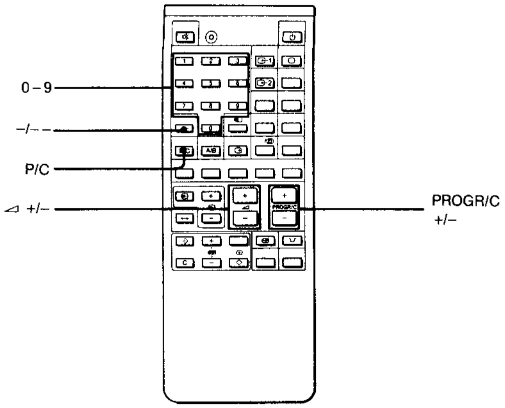
The next time the programme +/– button is pressed, the progamme position will be skipped.
If you want to skip more programme positions, repeat steps 2 and 3.

Note on colour system button (▣)
Normally, set to AUTO. If abnormal or no colour picture appears, press this button to select the system which produces normal colour.
The indications will appear as follows:
AUTO → PAL → SECAM → $NTSC_{3.58}$ → $NTSC_{4.43}$ ↵

Note on TV system button (⊛)
If the sound is distorted or noisy, press this button to select the system which produces clear sound.
The indications will appear as follows:
B/G → L → I ↵

B/G: West European countries except France and the UK
L: France
I : UK

1-5. WATCHING TV PROGRAMMES.


0–9
–/– –
P/C
◁ +/–
PROGR/C
+/–

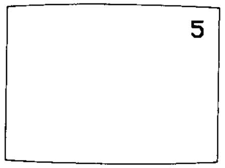
1 **Press ⏻ (POWER) switch on the set to turn the TV on.**

2 **Select a programme in one of the following two ways:**

To select by programme position number

Press P/C to change into the programme tuning mode.

(a) For direct programme tuning for the programme under 10, press 0, 1, 2, 3, ... 9.



(b) For direct programme tuning for the programme over 9, press –/– – and two number buttons.
(e.g. for programme 32, press –/– –, 3 and then 2)

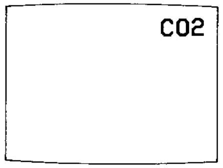
(c) For sequential programme up/down tuning, press PROGR/C +/–.

Note
When pressing two number buttons, the second button should be pressed within 5 seconds. Otherwise the operation will be cancelled and the display will return to the original one.

To select by channel number

Press P/C to change into the channel tuning mode.

(a) For direct channel tuning for normal channel, press two number buttons sequentially.
(e.g. for channel 2, press 0 and 2)
For CATV channels, press before pressing the number buttons.

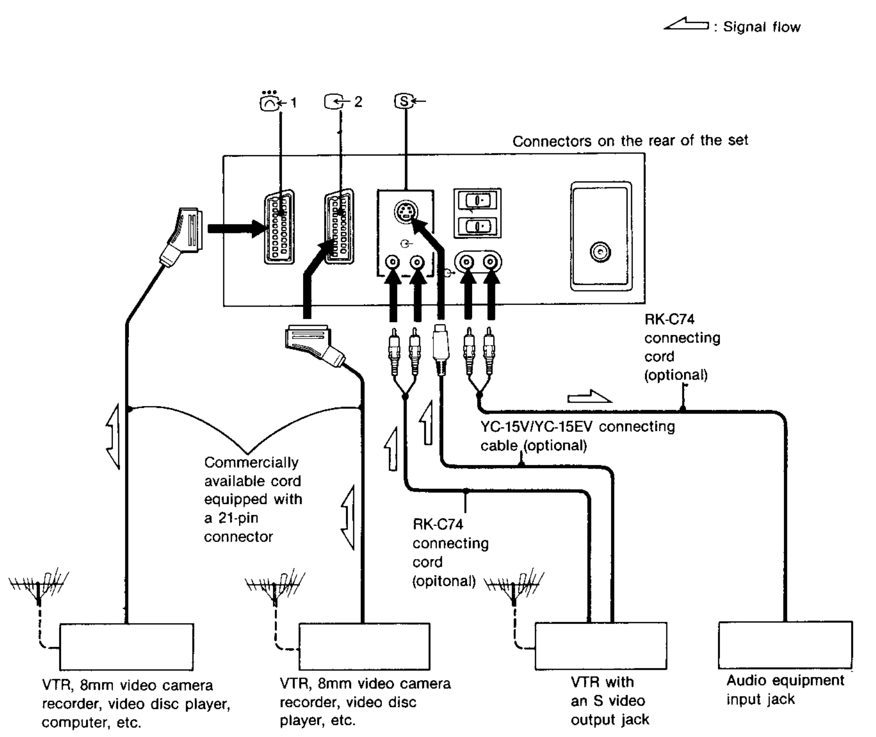


Note
The second button should be pressed within 5 seconds. Otherwise the operation will be cancelled and the display will return to the original one.

(b) For sequential channel up/down tuning, press PROGR/C +/–.

3 **Press ◁ (volume) +/– buttons to adjust the volume.**

1-6. CONNECTING OTHER EQUIPMENT.


: Signal flow
1
2
Connectors on the rear of the set
RK-C74 connecting cord (optional)
YC-15V/YC-15EV connecting cable (optional)
Commercially available cord equipped with a 21-pin connector
RK-C74 connecting cord (opitonal)
VTR, 8mm video camera recorder, video disc player, computer, etc.
VTR, 8mm video camera recorder, video disc player, etc.
VTR with an S video output jack
Audio equipment input jack

Notes
- Move the VTR away from the TV if the picture or sound is distorted.
- It is also possible to connect a VTR using the ╥ socket.
- Computers which have RGB output only cannot be connected to ⊖ 2.
- Do not connect VTRs to both ⊖ 2 and Ⓢ at the same time.

1-7. VIEWING TELETEX.

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.

Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors may often occur.

2 Press ⊜ / ⊘ (TEXT/MIX) to display the teletext service.
The teletext service can be displayed directly from the standby mode by pressing ⊜ / ⊘.
Once ⊜ / ⊘ has been pressed, the TV channel cannot be changed.

3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit.
Then re-enter the correct page number. The requested teletext page is displayed.

How to Activate Various Functions

To display the index page	Press ⓘ (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.
To access the next or preceding page	Press ⊞ (PAGE+) or ⊟ (PAGE−).
To superimpose the teletext display on the picture	Press ⊜ / ⊘ twice from TV mode. Press ⊜ / ⊘ again to return to the TEXT display.
To suppress the teletext display so that the TV picture is displayed.	Press ⊠ (TEXT CL). This button can be operated from both the TEXT and MIX displays.
To prevent a teletext page (subpage) from being updated/changed	Press ⊜ (HOLD). The HOLD symbol appears at the top of the screen.
To resume normal teletext reception	Press ⊜ / ⊘.
To enlarge the teletext display	Press ⊕ once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.
To reveal concealed information such as answers to a quiz	Press ❓ (REVEAL). Press again to conceal the answers.
To adjust the contrast of the teletext display	When in teletext mode, adjust by using the + or − buttons adjacent to the ◐ button.
To watch the TV programme while waiting for a requested page to be displayed	1 Request the new page. 2 Press ⊠ to watch the TV programme. The requested page number and other data appears at the top of the screen while the page number is being searched for. When the requested page has been captured, the page number remains on the screen and the other data disappears. P101 (TV picture) To view this page, press ⊜ / ⊘.
To have a requested page displayed at a pre-determined time	1 Request a time coded page (e.g. alarm page). 2 Press ⏲ (TP ON). "T****" will appear at the bottom of the screen. T**** 3 Enter your request time with the number buttons, using four digits. For example, 0730. T0730 To watch the TV programme until the requested time, press ⊠. At the requested time, the page number will be displayed at the top of the screen. To view this page, press ⊜ / ⊘. To cancel the request, first ensure that the teletext page is displayed, then press ⏲ (TP OFF).
To return to the TV mode	Press ▢ on the Remote Commander.
To receive the teletext service of a different TV channel	1 Press ▢ to return to the TV mode. 2 Select the desired TV channel. 3 Press ⊜ / ⊘.

1-8. RECEIVABLE CHANNEL AND CHANNEL DISPLAYS.

The following tables show the receivable channels and the corresponding indications for each TV and colour system.
Check the TV and colour system in your area, then display the indication (in the right column) which corresponds to the channel (in the left column) you wish to view.

PAL B/G	
Receivable channel	Indication displayed on the screen
E 2	C 02
3	C 03
4	C 04
⋮	⋮
12	C 12
21	C 21
⋮	⋮
69	C 69
Italy	
A	C 13
B	C 14
C	C 15
D	C 16
E	C 17
F	C 18
G	C 19
H	C 20
H1	C 11
H2	C 12

Cable TV (1)	
Receivable channel	Indication displayed on the screen
S 1	🔌 01
2	🔌 02
⋮	⋮
41	🔌 41
Cable TV (2)	
S 01	🔌 42
⋮	⋮
S 05	🔌 46
M 1	🔌 01
⋮	⋮
M 10	🔌 10
U 41	🔌 11
⋮	⋮
U 10	🔌 20

French SECAM-L	
Receivable channel	Indication displayed on the screen
2	C 02
3	C 03
⋮	⋮
10	C 10
21	C 21
⋮	⋮
69	C 69
French Cable TV	
B	🔌 02
C	🔌 03
D	🔌 04
⋮	⋮
O	🔌 15
P	🔌 16
Q	🔌 17

PAL-I Ireland	
Receivable channel	Indication displayed on the screen
A	C 501
B	C 02
C	C 03
D	C 04
E	C 05
F	C 06
G	C 07
H	C 08
J	C 09
PAL-I UK	
21	C 21
⋮	⋮
69	C 69

1-9. PRECAUTIONS.

Safety

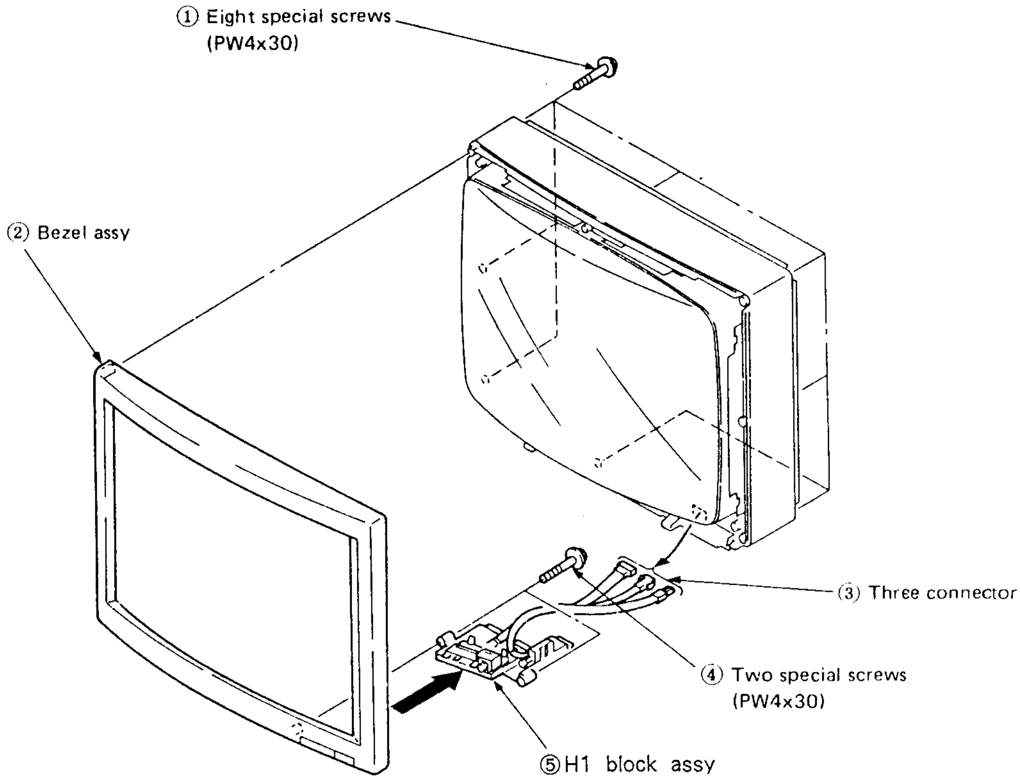
- Operate the set only on 220−240V AC, 50Hz.
- If the AC cord becomes damaged refer servicing to qualified personnel only.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installation

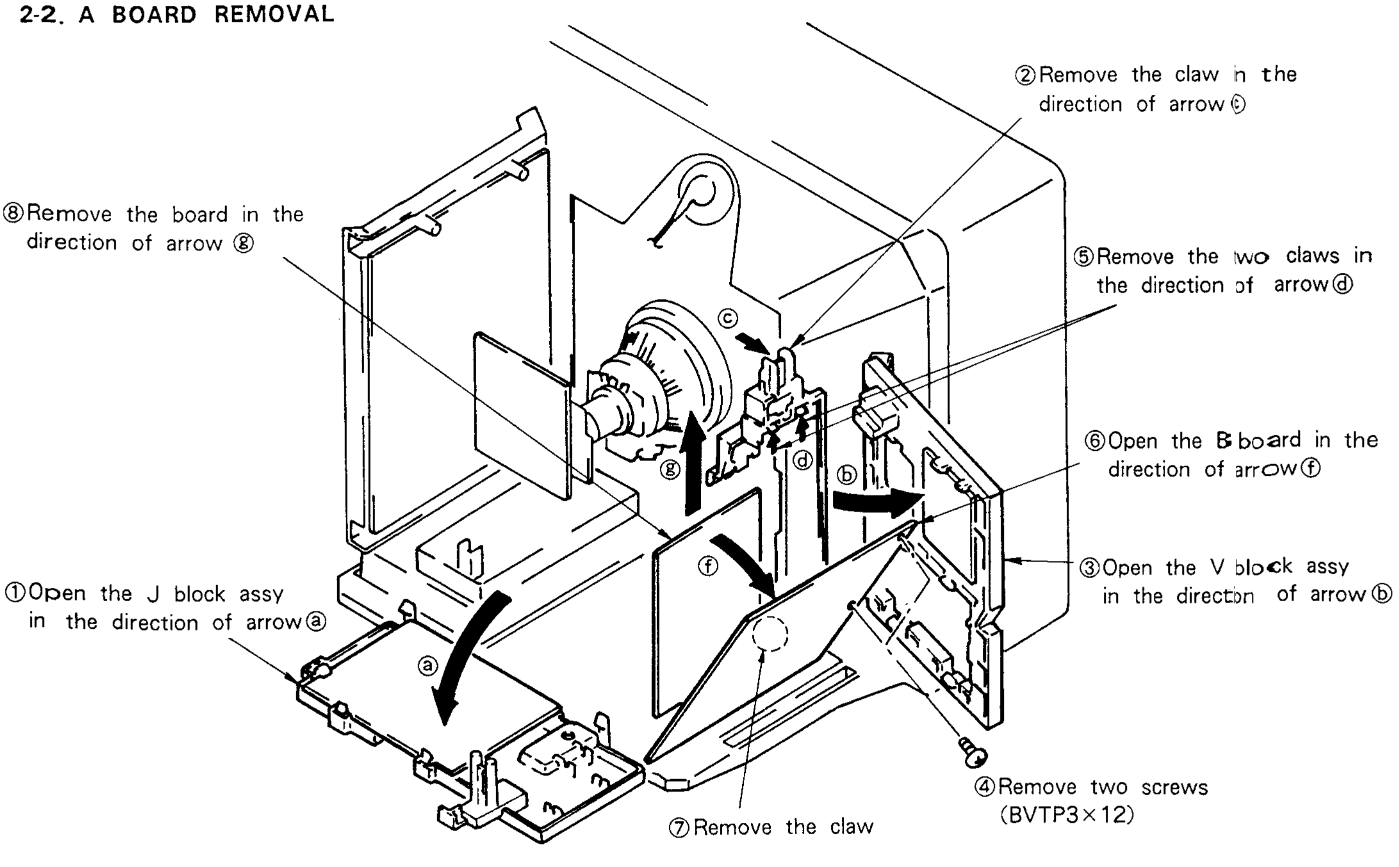
- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the set in a hot or humid place or in a place subject to excessive dust or mechanical vibration.

SECTION 2
DISASSEMBLY

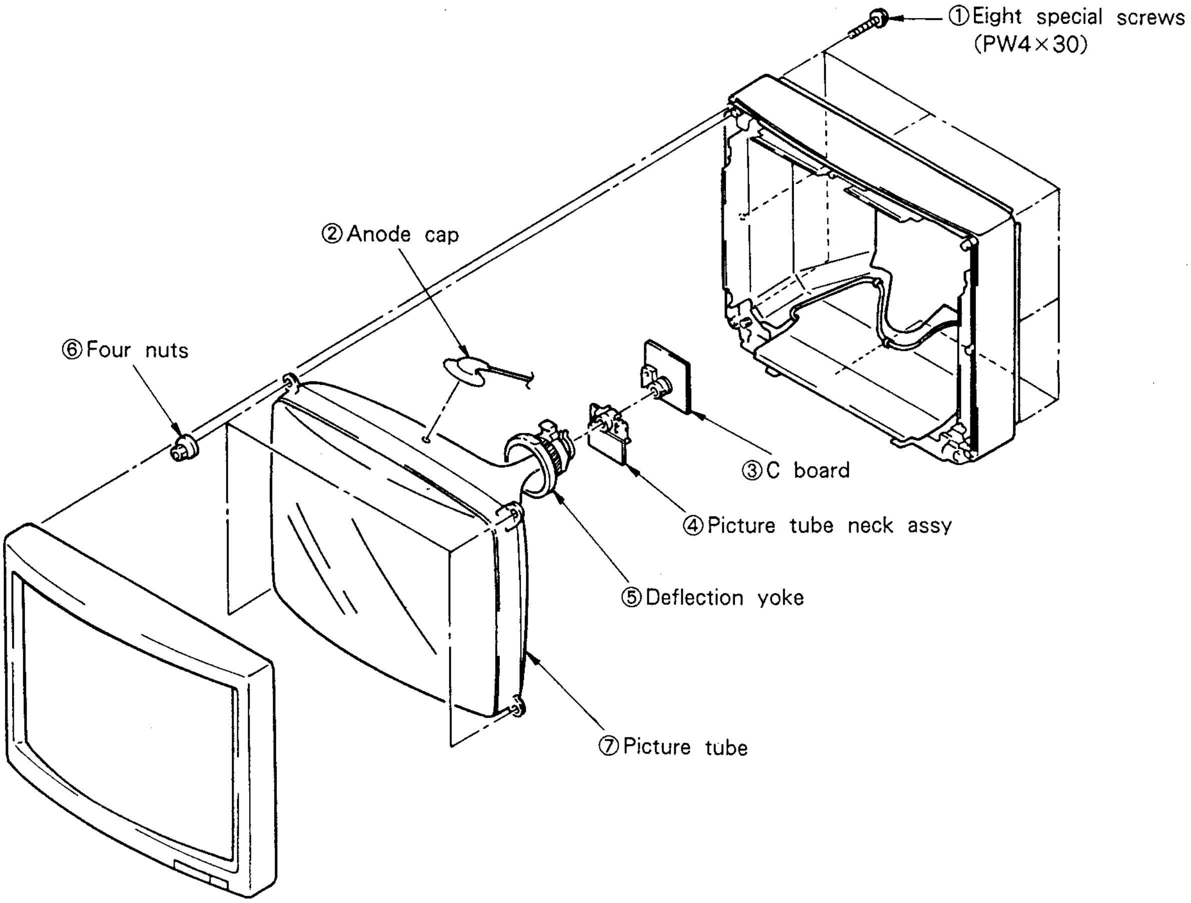
2-1. H1 BLOCK ASSY REMOVAL


① Eight special screws
(PW4x30)
② Bezel assy
③ Three connector
④ Two special screws
(PW4x30)
⑤H1 block assy

2-2. A BOARD REMOVAL

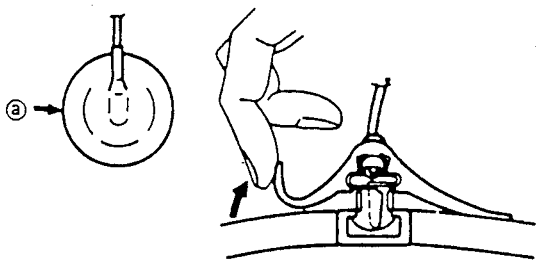

②Remove the claw in the direction of arrow ⓒ
⑧Remove the board in the direction of arrow ⓖ
⑤Remove the two claws in the direction of arrow ⓓ
⑥Open the B board in the direction of arrow ⓕ
③Open the V block assy in the direction of arrow ⓑ
①Open the J block assy in the direction of arrow ⓐ
④Remove two screws (BVTP3×12)
⑦Remove the claw
ⓐ
ⓑ
ⓒ
ⓓ
ⓕ
ⓖ

2-3. PICTURE TUBE REMOVAL

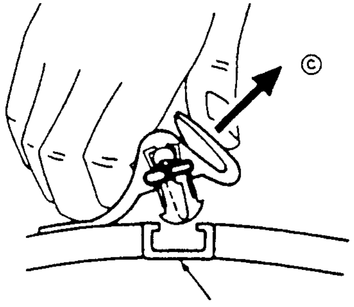

①Eight special screws (PW4×30)
②Anode cap
⑥Four nuts
③C board
④Picture tube neck assy
⑤Deflection yoke
⑦Picture tube

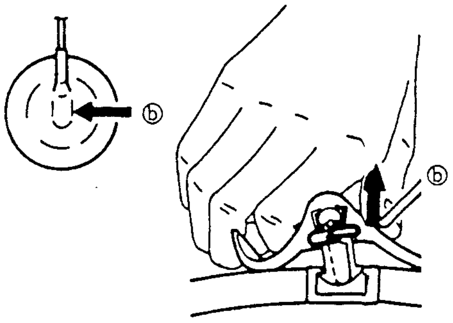
REMOVAL OF ANODE CAP

● **Removing Procedures**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.


ⓒ
Anode button



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ············ 80% (or Normal by Commander)
☼BRIGHTNESS control ·········· 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Position neck protector ass'y as shown in Fig. 3-1.
2. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
3. Turn the raster signal of the pattern generator to red.
4. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3-2. ~ 3-4.)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-2.)
6. Switch over the raster signal to blue and green and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the magnet. (Fig. 3-5.)

Fig. 3-1.

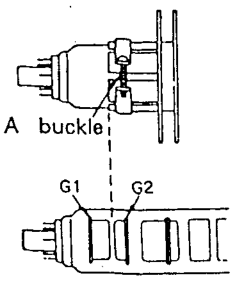

A buckle
G1
G2

Fig. 3-2.

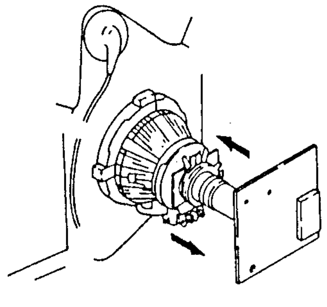


Fig. 3-3.

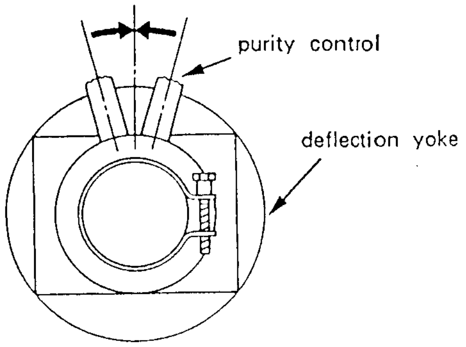

purity control
deflection yoke

Fig. 3-4.

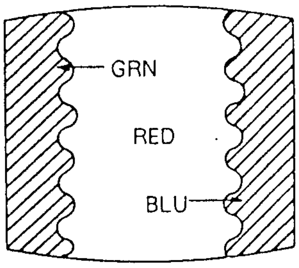
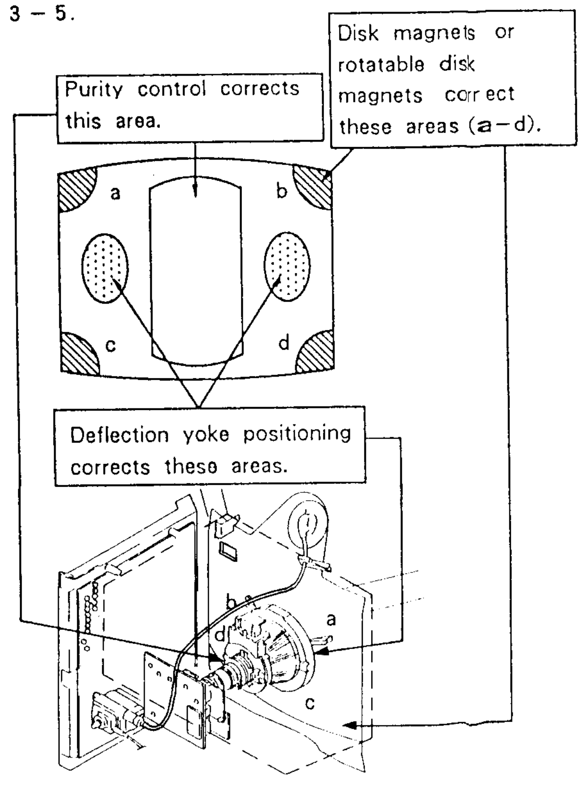


Fig. 3-5.

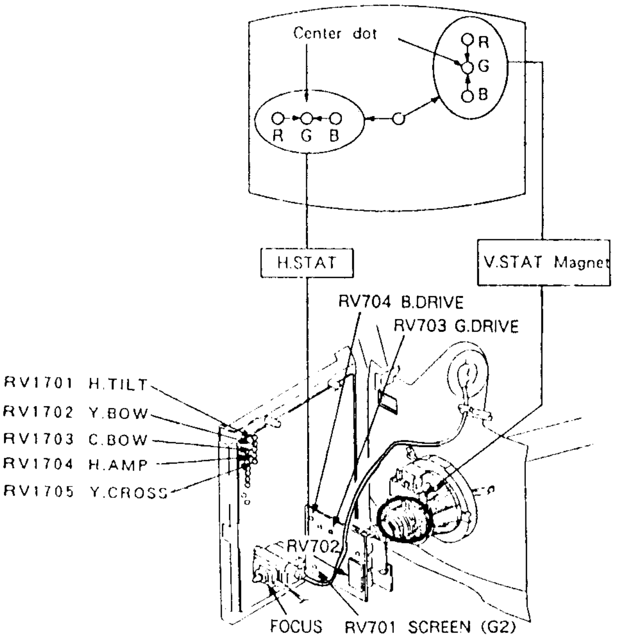

Disk magnets or rotatable disk magnets correct these areas (a-d).
Purity control corrects this area.
a
b
c
d
Deflection yoke positioning corrects these areas.
b
d
a
c

3-2. CONVERGENCE

Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

1. Horizontal and Vertical Static Convergence

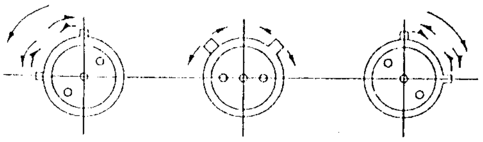

Center dot
R
G
B
R G B
H.STAT
V.STAT Magnet
RV704 B.DRIVE
RV703 G.DRIVE
RV1701 H.TILT
RV1702 Y.BOW
RV1703 C.BOW
RV1704 H.AMP
RV1705 Y.CROSS
RV702
FOCUS
RV701 SCREEN (G2)

(1) Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)

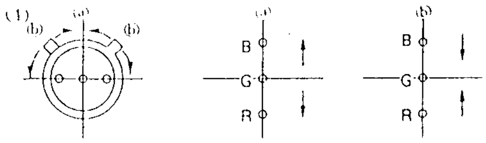
(2) Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)

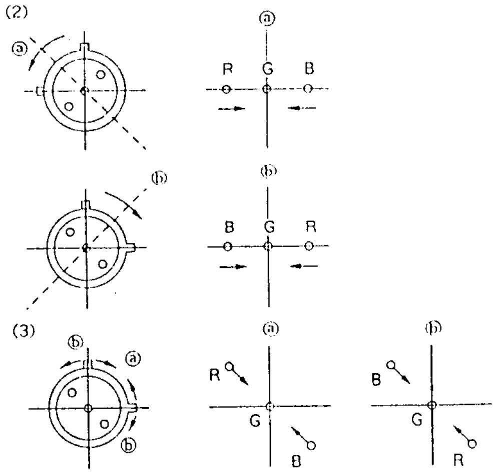
(3) If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.
(In this case, H. STAT VR and V. STAT magnet effect each other.)

- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

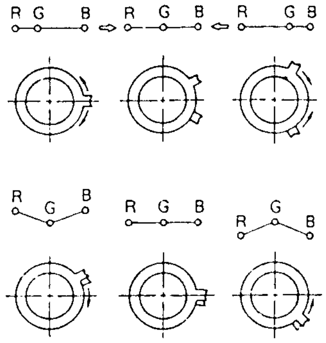


(4) When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

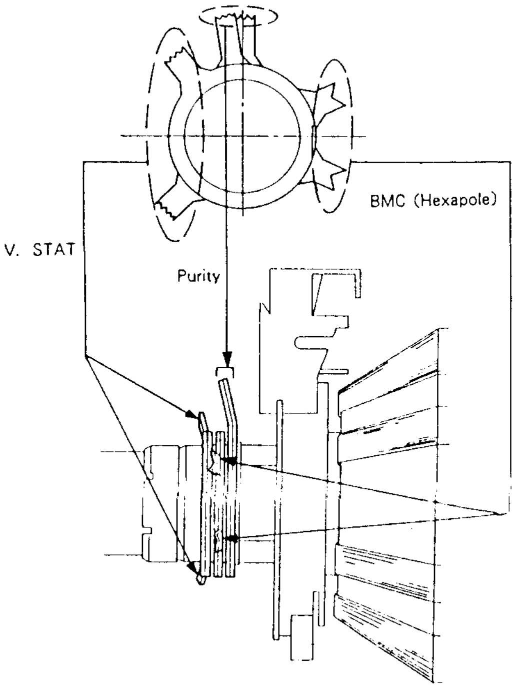



(2)
ⓐ
ⓐ
R G B
ⓑ
ⓑ
B G R
(3)
ⓑ
ⓐ
ⓑ
ⓐ
R
G
B
ⓑ
B
G
R

2. Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
G
R B

- The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).


BMC (Hexapole)
V. STAT
Purity

3. Dynamic Convergence Adjustment

(1) Adjust the Y・CROSS (RV1705) and Y・BOW (RV1702), so that RED and BLUE shown in Fig3-6 will become a=b=c.

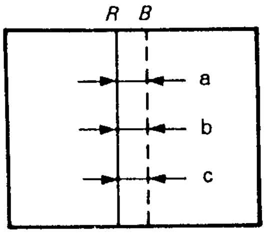


Fig. 3-6

(2) Match the horizontal convergence at the center of the screen with H STAT VR.

(3) Adjust the CORNER BOW (RV1703), so that RED and BLUE shown in Fig3-7 will become a=b=c and d=e=f.
Note: At this point, if the relationship between a=c or d=f is not established, adjust the Y・CROSS (RV1705) again.

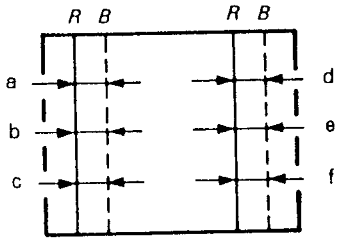


Fig. 3-7

(4) Match the horizontal convergence at the center of the screen with the H STAT VR.

(5) Adjust the H TILT (RV1701) so that the RED and BLUE shown in Fig3-8 will become a=b.

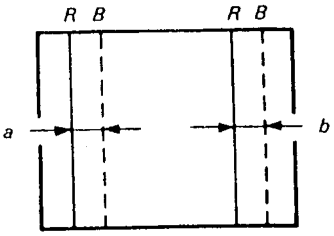


Fig. 3-8

(6) Adjust the H AMP (RV1704) so that the RED and BLUE shown in Fig3-9 will become b = c

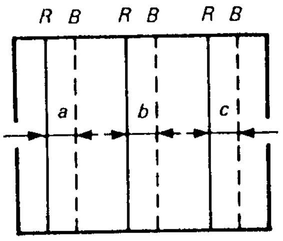


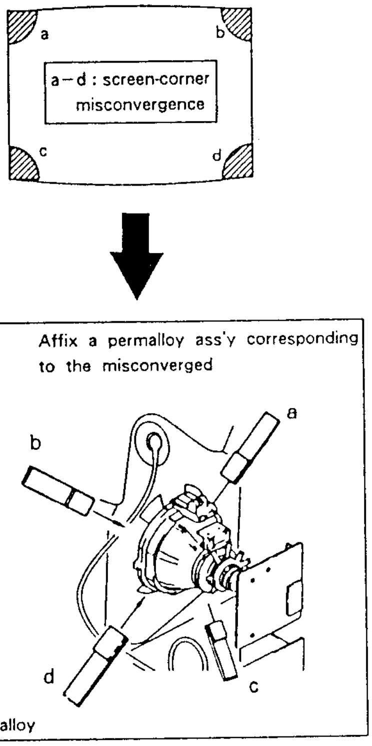
Fig. 3-9

(7) Match the horizontal convergence at the center of the screen with the H STAT VR.

(8) When the H AMP is adjusted repeat the procedures described in Steps (5) to (7).

(9) If divergence of the convergence exists at the corner of the screen, the adjustments described in Steps after (3) should be repeated.

4. Screen-corner Convergence


a
b
c
d
a–d : screen-corner misconvergence
Affix a permalloy ass'y corresponding to the misconverged
a
b
c
d
Permalloy

3–3. WHITE BALANCE

[Screen (G2) Setting]

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 180 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

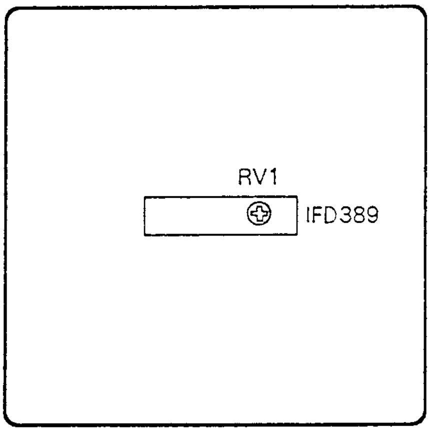
[White Balance Adjustment]

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

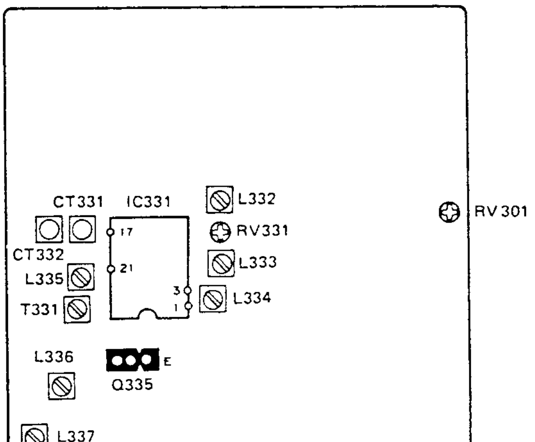


(Component side)

TUNER AGC Adjustment

1. Tune in an off-air signal.
2. Adjust AGC VR on IFD389 so that snow-noise and cross-modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENT



(Component side)

REC OSC NTSC 3.58 MHz Adjustment (CT331)

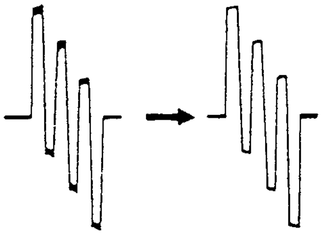
1. Input a NTSC 3.58 MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT331 to get the slowest movings of picture.
4. Remove the jumper wire from IC331.

REF OSC Adjustment NTSC 4.43 MHz Adjustment (CT332)

1. Input a NTSC 4.43 MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT332 to get the slowest movings of picture.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

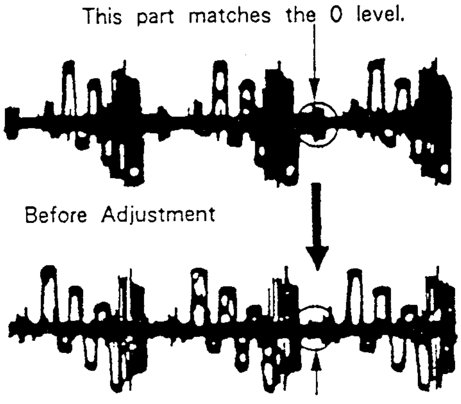
1. Input PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ① (R-Y) of IC331.
3. Adjust L332 to minimize the double waveform outline.



Before Adjustment After Adjustment

4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.

This part matches the 0 level.



Before Adjustment

After Adjustment 0 level

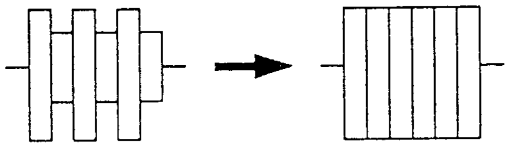
6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ㉑ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

BELL FILTER Adjustment (T331)

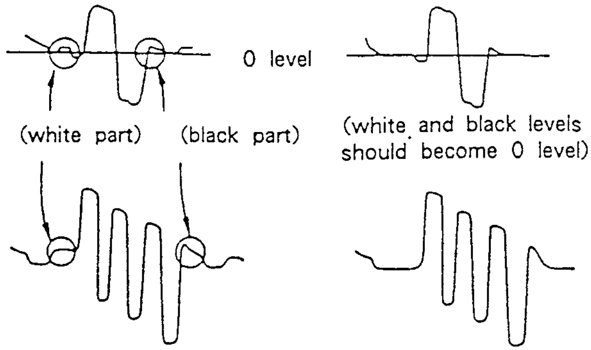
1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.
4. L335 and T331 tracking adjustment is required.



Before Adjustment After Adjustment

SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.


0 level
(white part)
(black part)
(white and black levels should become 0 level)

(Before Adjustment) (After Adjustment)

4.25 TRAP Adjustment (L336)

1. Input SECAM COLOR BAR pattern.
2. Connect oscilloscope to the Q307 emitter.
3. Adjust L336 so that 4.25 MHz waveform to minimum.

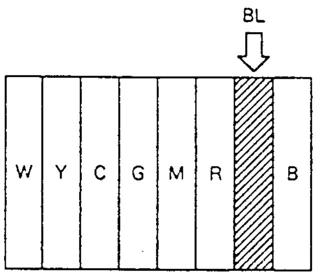
4.43 TRAP Adjustment (L337)

1. Input SECAM COLOR BAR pattern.
2. Connect oscilloscope to the Q307 emitter.
3. Adjust L337 so that 4.43 MHz waveform to minimum.

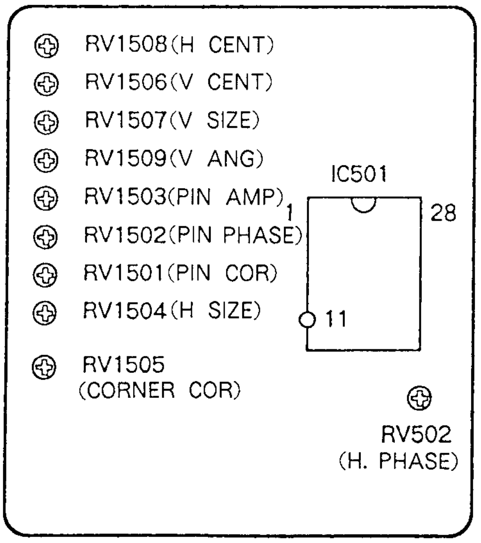
SUB BRT Adjustment (RV301)

1. Set BRIGHTNESS =50%
   COLOR =50%
   CONTRAST =Minimum

2. Adjust RV301 (SUB BRIGHT) so that the blue stripe portion on the color-bar pattern signal is bright dimly.
   color-bar pattern



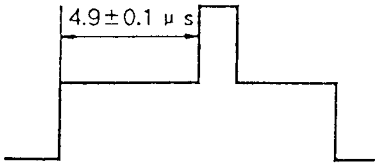
4-3. D BOARD ADJUSTMENT


RV1508(H CENT)
RV1506(V CENT)
RV1507(V SIZE)
RV1509(V ANG)
RV1503(PIN AMP)
RV1502(PIN PHASE)
RV1501(PIN COR)
RV1504(H SIZE)
RV1505 (CORNER COR)
IC501
1
28
11
RV502 (H. PHASE)

(Component side)

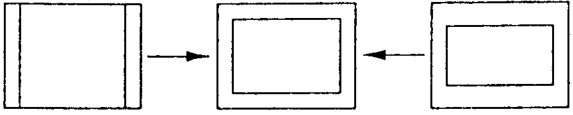
H. PHASE Adjustment (RV502)

1. Input a PAL COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 4.9±0.1 μs.

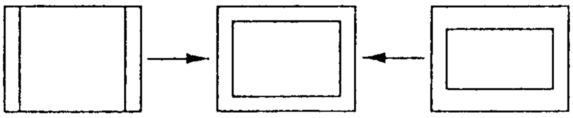


Restance Correct

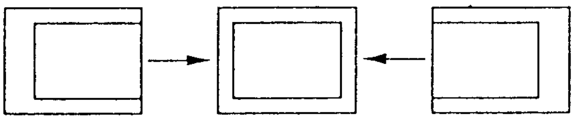
RV1504
H.SIZE (HORIZONTAL SIZE)



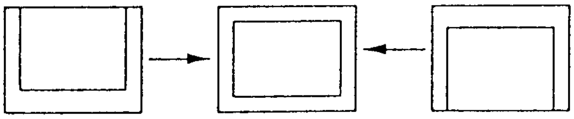
RV1507
V.SIZE (VERTICAL SIZE)



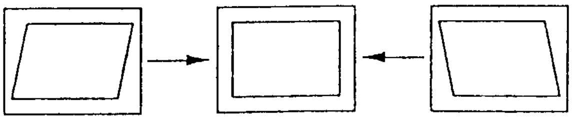
RV1508
H.CENT (HORIZONTAL CENTER)



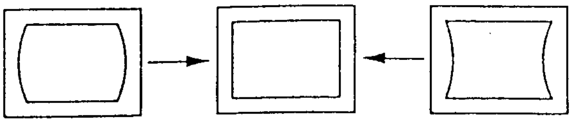
RV1506
V.CENT (VERTICAL CENTER)



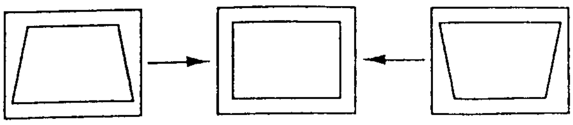
RV1509
V.ANGLE (VERTICAL ANGLE)



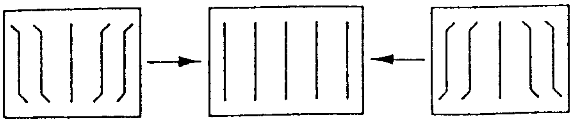
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



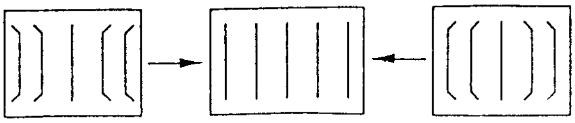
RV1502
PIN PHASE (PINCUSHION PHASE)



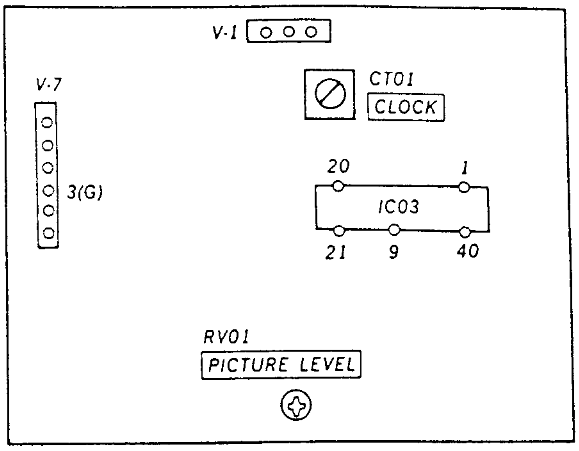
RV1501
PIN COR (PINCUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)



4 – 4. V BOARD ADJUSTMENTS

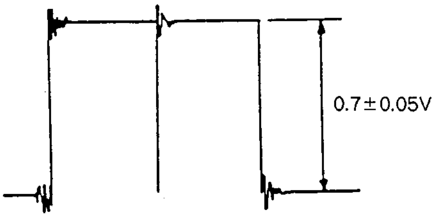


CLOCK Adjustment (CT01)

1. Disconnect V-1 connector.
2. Connect frequency counter to pin ⑨ of IC03.
3. Adjust CT01 to 6.0 MHz ± 50 Hz.
4. Connect V-1 connector.

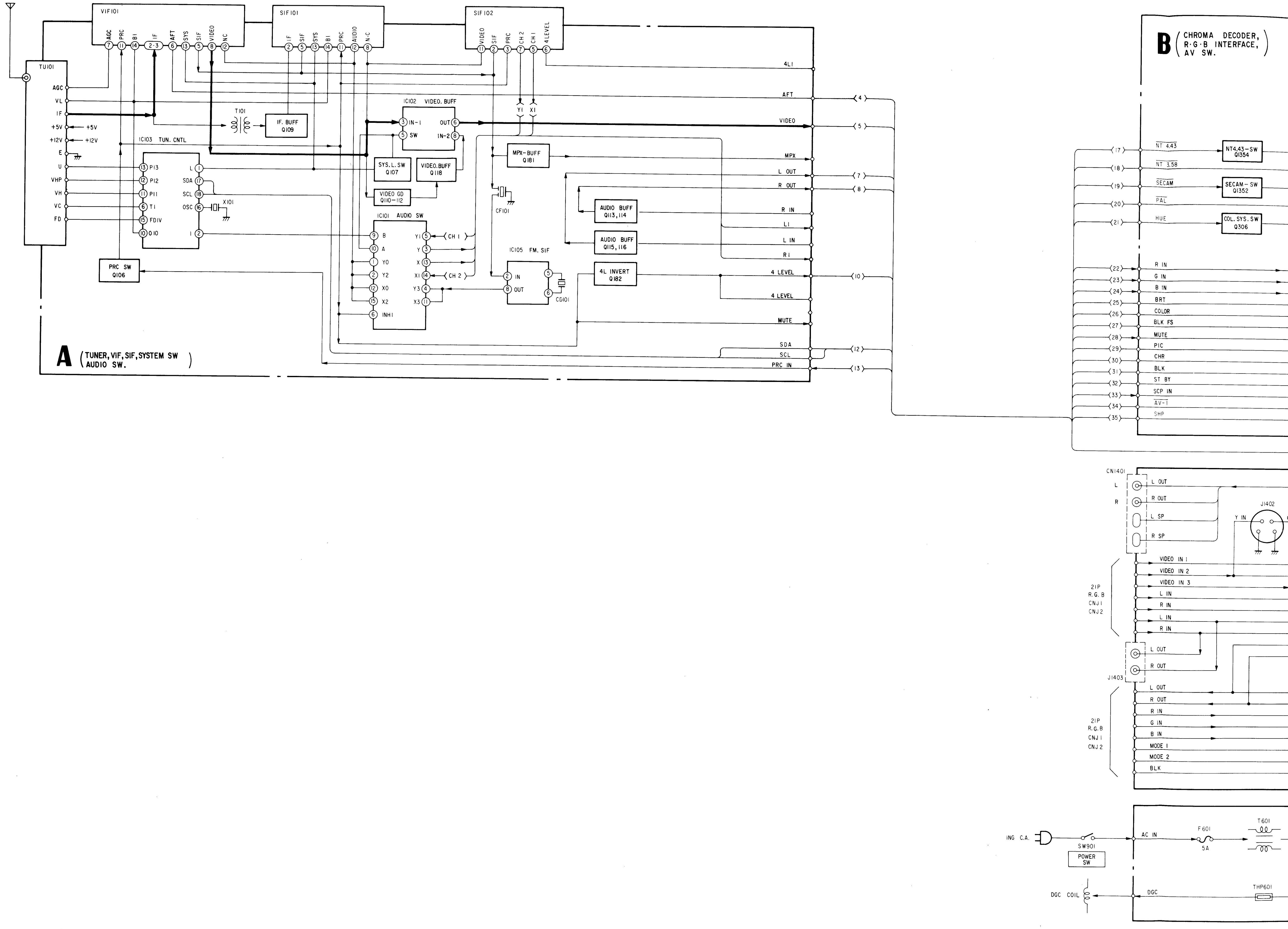
PICTURE LEVEL Adjustment (RV01)

1. Set the CONTRAST control to maximum
2. Connect oscilloscope to B output of CNV3 connector.
3. Adjust RV01 so that B output level (black level to white peak) is 0.7±0.05V.

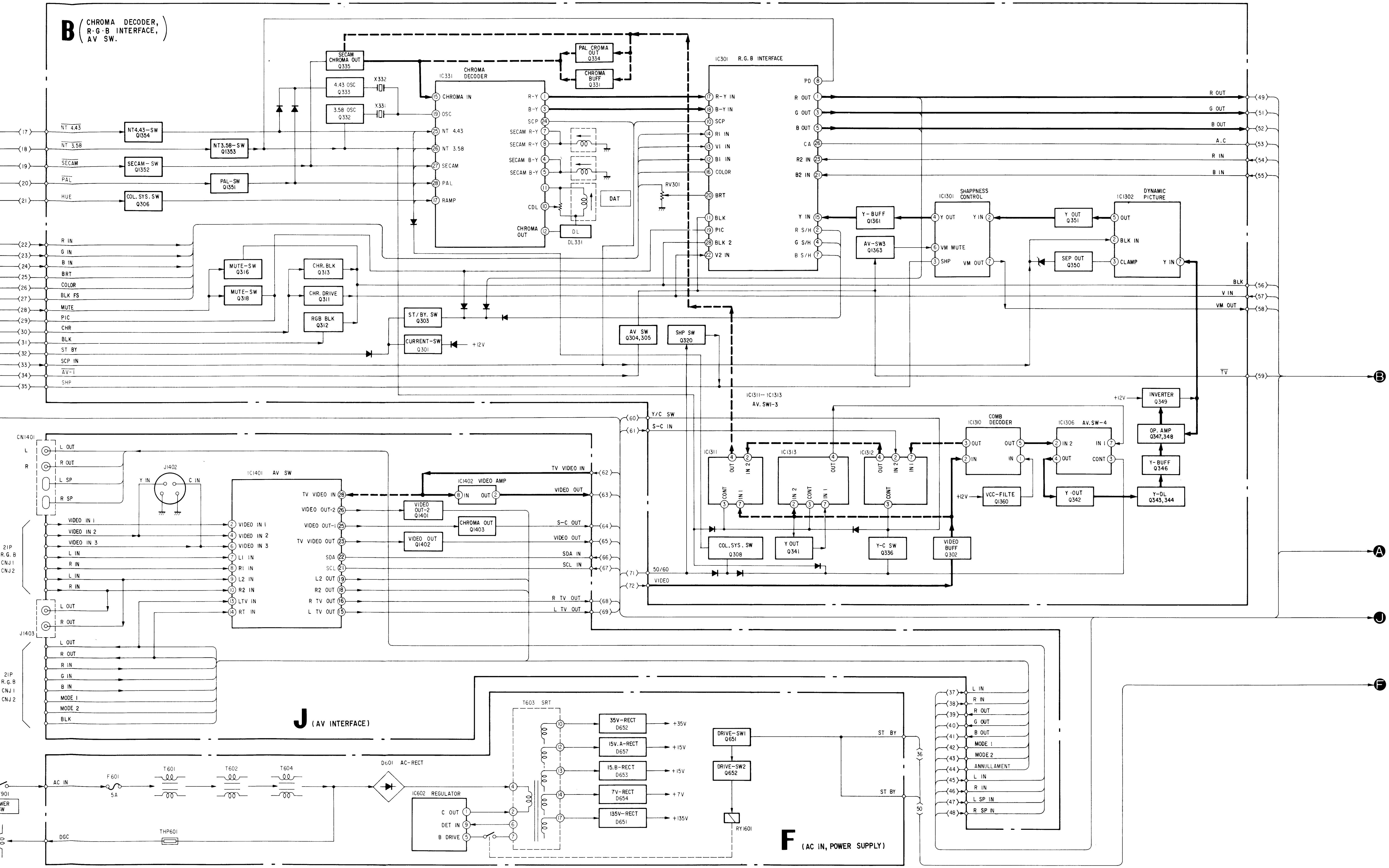


SECTION 5
DIAGRAMS

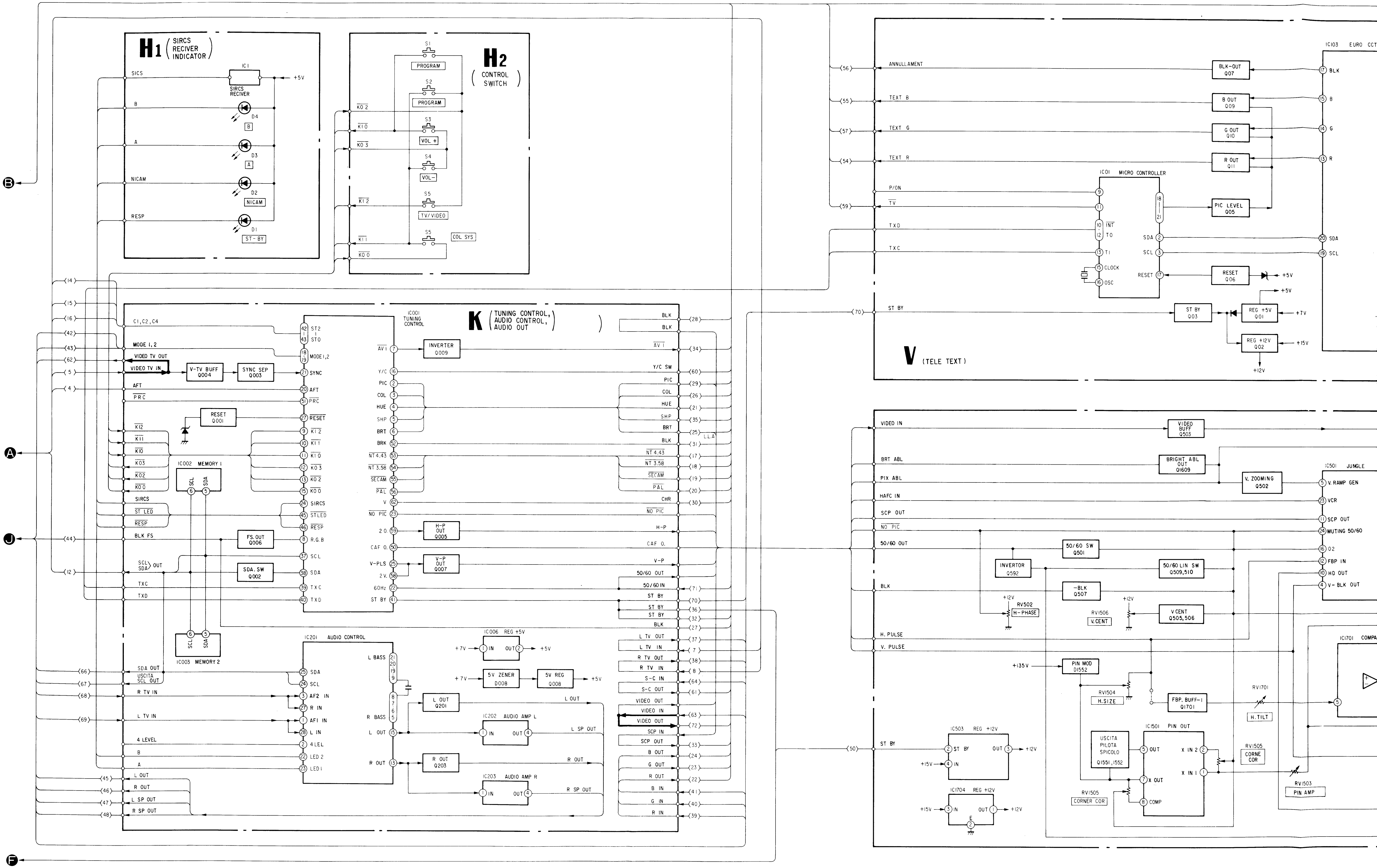
5-1. BLOCK DIAGRAM (1)

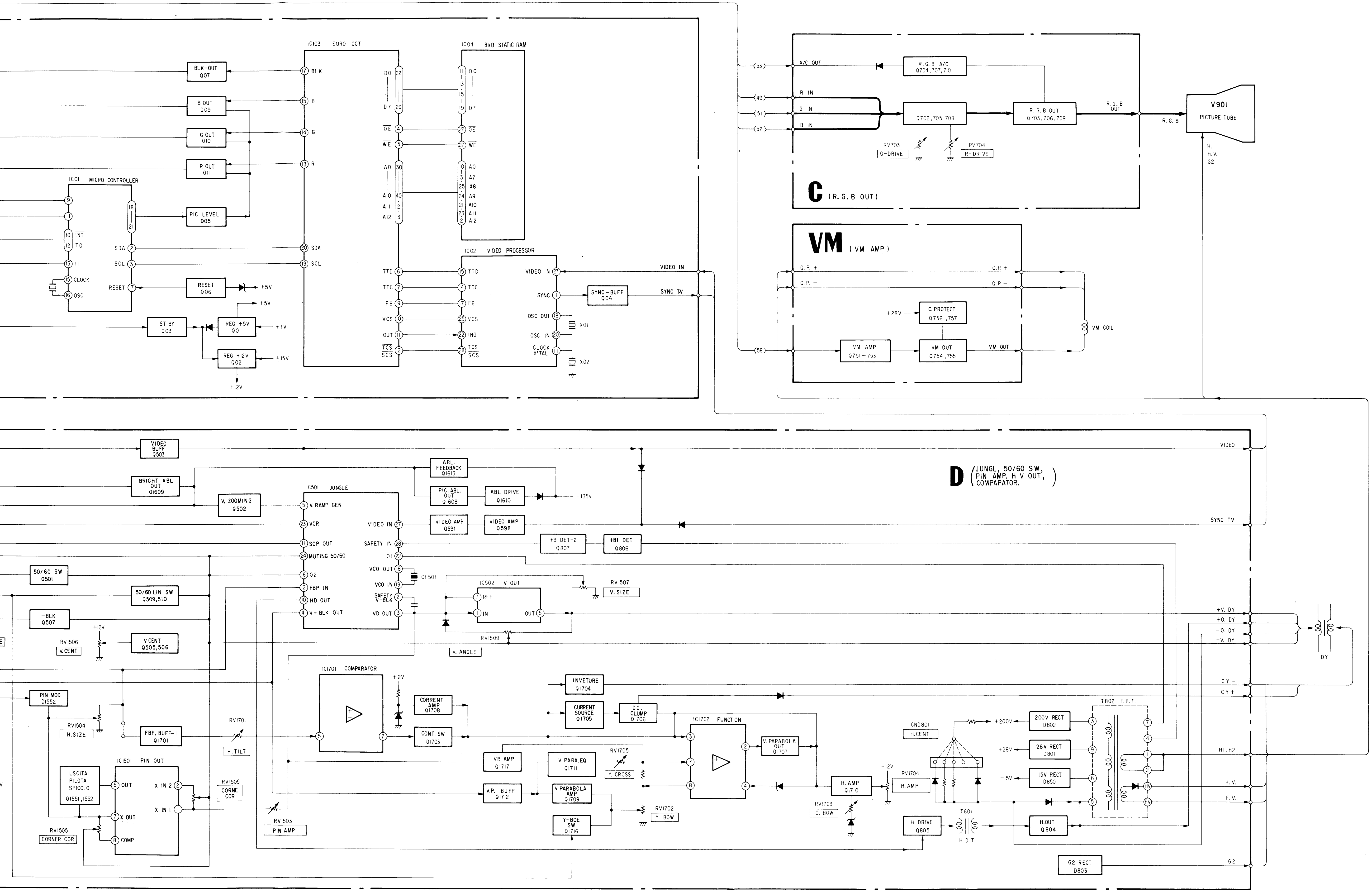

VIF101
AGC
PRC
BI
IF
AFT
SYS
SIF
VIDEO
NC
SIF101
IF
SIF
SYS
BI
PRC
AUDIO
N-C
SIF102
VIDEO
SIF
PRC
CH 2
CH 1
4 LEVEL
TU101
AGC
VL
IF
+5V
+12V
E
U
VHP
VH
VC
FD
T101
IF. BUFF
Q109
IC102 VIDEO. BUFF
IN-1
SW
OUT
IN-2
IC103 TUN. CNTL
P13
P12
P11
T1
FDIV
O10
L
SDA
SCL
OSC
I
X101
SYS. L. SW
Q107
VIDEO. BUFF
Q118
VIDEO GD
Q110-112
Y1
X1
MPX-BUFF
Q181
CF101
IC101 AUDIO SW
B
A
Y0
Y2
X0
X2
INH1
Y1
Y
X
X1
Y3
X3
CH 1
CH 2
IC105 FM. SIF
IN
OUT
CD101
AUDIO BUFF
Q113, 114
AUDIO BUFF
Q115, 116
4L INVERT
Q182
PRC SW
Q106
4LI
AFT
VIDEO
MPX
L OUT
R OUT
R IN
LI
L IN
RI
4 LEVEL
4 LEVEL
MUTE
SDA
SCL
PRC IN
A (TUNER, VIF, SIF, SYSTEM SW AUDIO SW.)
B (CHROMA DECODER, R·G·B INTERFACE, AV SW.)
NT 4.43
NT 3.58
SECAM
PAL
HUE
NT4.43-SW
Q1354
SECAM-SW
Q1352
COL. SYS. SW
Q306
R IN
G IN
B IN
BRT
COLOR
BLK FS
MUTE
PIC
CHR
BLK
ST BY
SCP IN
AV-1
SHP
CN1401
L
R
L OUT
R OUT
L SP
R SP
J1402
Y IN
VIDEO IN 1
VIDEO IN 2
VIDEO IN 3
L IN
R IN
L IN
R IN
21P
R.G.B
CNJ1
CNJ2
J1403
L OUT
R OUT
L OUT
R OUT
R IN
G IN
B IN
MODE 1
MODE 2
BLK
21P
R.G.B
CNJ1
CNJ2
ING C.A.
SW901
POWER SW
AC IN
F601
5A
T601
DGC COIL
DGC
THP601

KV-D3411D
RM-684/SS-XT291

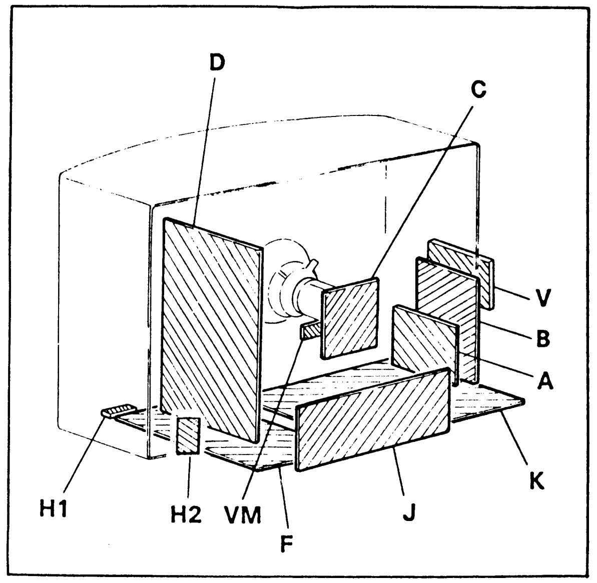

B (CHROMA DECODER, R·G·B INTERFACE, AV SW.)
SECAM CHROMA OUT Q335
PAL CROMA OUT Q334
CHROMA BUFF Q331
4.43 OSC Q333
X332
3.58 OSC Q332
X331
IC331 CHROMA DECODER
CHROMA IN
OSC
NT 4.43
NT 3.58
SECAM
PAL
RAMP
R-Y
B-Y
SCP
SECAM R-Y
SECAM B-Y
CDL
CHROMA OUT
DL
DL331
DAT
RV301
IC301 R.G.B INTERFACE
PD
R-Y IN
B-Y IN
SCP
RI IN
VI IN
BI IN
COLOR
BRT
BLK
PIC
BLK 2
V2 IN
R OUT
G OUT
B OUT
CA
R2 IN
B2 IN
Y IN
R S/H
G S/H
B S/H
NT 4.43
NT 3.58
SECAM
PAL
HUE
NT4.43-SW Q1354
NT3.58-SW Q1353
SECAM-SW Q1352
PAL-SW Q1351
COL.SYS.SW Q306
R IN
G IN
B IN
BRT
COLOR
BLK FS
MUTE
PIC
CHR
BLK
ST BY
SCP IN
AV-1
SHP
MUTE-SW Q316
MUTE-SW Q318
CHR.BLK Q313
CHR. DRIVE Q311
RGB BLK Q312
ST/BY. SW Q303
CURRENT-SW Q301
+12V
AV SW Q304,305
SHP SW Q320
Y-BUFF Q1361
AV-SW3 Q1363
IC1301 SHAPPNESS CONTROL
Y OUT
Y IN
VM MUTE
SHP
VM OUT
Y OUT Q351
SEP OUT Q350
IC1302 DYNAMIC PICTURE
OUT
BLK IN
CLAMP
Y IN
R OUT
G OUT
B OUT
A.C
R IN
B IN
BLK
V IN
VM OUT
TV
IC1311—IC1313 AV. SWI-3
Y/C SW
S-C IN
IC1311
IC1313
IC1312
OUT
IN 2
IN 1
CONT
COL.SYS. SW Q308
Y OUT Q341
Y-C SW Q336
VIDEO BUFF Q302
50/60
VIDEO
IC1310 COMB DECODER
OUT
IN
+12V
VCC-FILTE Q1360
IC1306 AV.SW-4
IN 2
IN 1
OUT
CONT
Y-OUT Q342
Y-DL Q343,344
Y-BUFF Q346
OP. AMP Q347,348
INVERTER Q349
+12V
CN1401
L
R
L OUT
R OUT
L SP
R SP
J1402
Y IN
C IN
VIDEO IN 1
VIDEO IN 2
VIDEO IN 3
L IN
R IN
L IN
R IN
J1403
L OUT
R OUT
21P R.G.B CNJ1 CNJ2
IC1401 AV SW
VIDEO IN 1
VIDEO IN 2
VIDEO IN 3
L1 IN
R1 IN
L2 IN
R2 IN
LTV IN
RT IN
TV VIDEO IN
VIDEO OUT-2
VIDEO OUT-1
TV VIDEO OUT
SDA
SCL
L2 OUT
R2 OUT
R TV OUT
L TV OUT
IC1402 VIDEO AMP
IN
OUT
VIDEO OUT-2 Q1401
CHROMA OUT Q1403
VIDEO OUT Q1402
TV VIDEO IN
VIDEO OUT
S-C OUT
VIDEO OUT
SDA IN
SCL IN
R TV OUT
L TV OUT
L OUT
R OUT
R IN
G IN
B IN
MODE 1
MODE 2
BLK
J (AV INTERFACE)
AC IN
F601 5A
T601
T602
T604
D601 AC-RECT
IC602 REGULATOR
C OUT
DET IN
B DRIVE
DGC
THP601
T603 SRT
35V-RECT D652
15V.A-RECT D657
15.B-RECT D653
7V-RECT D654
135V-RECT D651
+35V
+15V
+15V
+7V
+135V
DRIVE-SW1 Q651
DRIVE-SW2 Q652
RY1601
ST BY
ST BY
F (AC IN, POWER SUPPLY)
L IN
R IN
R OUT
G OUT
B OUT
MODE 1
MODE 2
ANNULLAMENT
L IN
R IN
L SP IN
R SP IN
B
A
J
F

BLOCK DIAGRAM (2)


H1 (SIRCS RECIVER INDICATOR)
SICS
B
A
NICAM
RESP
IC1 SIRCS RECIVER
+5V
D4 B
D3 A
D2 NICAM
D1 ST-BY
H2 (CONTROL SWITCH)
S1 PROGRAM
S2 PROGRAM
S3 VOL +
S4 VOL−
S5 TV/VIDEO
S5 COL SYS
KO 2
KI 0
KO 3
KI 2
KI 1
KO 0
K (TUNING CONTROL, AUDIO CONTROL, AUDIO OUT)
IC001 TUNING CONTROL
C1,C2,C4
MODE 1,2
VIDEO TV OUT
VIDEO TV IN
V-TV BUFF Q004
SYNC SEP Q003
AFT
PRC
RESET Q001
IC002 MEMORY 1
SCL
SDA
SIRCS
ST LED
RESP
BLK FS
FS.OUT Q006
SCL SDA OUT
SDA.SW Q002
TXC
TXD
IC003 MEMORY 2
INVERTER Q009
H-P OUT Q005
V-P OUT Q007
ST2 STO
SYNC
RESET
R.G.B
AV1
Y/C
PIC
COL
HUE
SHP
BRT
BRK
NT4.43
NT3.58
SECAM
PAL
V
NO PIC
20
CAF 0.
V-PLS
2V.
60Hz
ST BY
BLK
Y/C SW
CHR
H-P
V-P
50/60 OUT
50/60 IN
LLA
IC201 AUDIO CONTROL
SDA OUT
USCITA SCL OUT
R TV IN
L TV IN
4 LEVEL
L OUT
R OUT
L SP OUT
R SP OUT
AF2 IN
R IN
AF1 IN
L IN
4 LEL
LED 2
LED 1
L BASS
R BASS
IC006 REG +5V
+7V
+5V
5V ZENER D008
5V REG Q008
L OUT Q201
R OUT Q203
IC202 AUDIO AMP L
IC203 AUDIO AMP R
IN
OUT
L TV OUT
L TV IN
R TV OUT
R TV IN
S-C IN
S-C OUT
VIDEO OUT
VIDEO IN
SCP IN
SCP OUT
B OUT
G OUT
R OUT
B IN
G IN
R IN
B
A
J
F
V (TELE TEXT)
ANNULLAMENT
TEXT B
TEXT G
TEXT R
P/ON
TV
TXD
TXC
ST BY
IC01 MICRO CONTROLLER
INT
TO
TI
CLOCK
OSC
SDA
SCL
RESET
BLK-OUT Q07
B OUT Q09
G OUT Q10
R OUT Q11
PIC LEVEL Q05
RESET Q06
ST BY Q03
REG +5V Q01
REG +12V Q02
+7V
+15V
+12V
IC103 EURO CCT
BLK
G
R
VIDEO IN
BRT ABL
PIX ABL
HAFC IN
SCP OUT
NO PIC
50/60 OUT
BLK
H. PULSE
V. PULSE
ST BY
VIDEO BUFF Q503
BRIGHT ABL OUT Q1609
V. ZOOMING Q502
IC501 JUNGLE
V. RAMP GEN
VCR
SCP OUT
MUTING 50/60
02
FBP IN
HD OUT
V- BLK OUT
50/60 SW Q501
INVERTOR Q592
50/60 LIN SW Q509,510
-BLK Q507
V CENT Q505,506
RV502 H-PHASE
RV1506 V.CENT
+135V
PIN MOD D1552
RV1504 H.SIZE
FBP. BUFF-1 Q1701
RV1701 H.TILT
IC1701 COMPA
IC503 REG +12V
IC1704 REG +12V
USCITA PILOTA SPICOLO Q1551,1552
IC1501 PIN OUT
X IN 2
X IN 1
X OUT
COMP
RV1505 CORNER COR
RV1503 PIN AMP


IC103 EURO CCT
IC04 8kB STATIC RAM
BLK-OUT Q07
B OUT Q09
G OUT Q10
R OUT Q11
IC01 MICRO CONTROLLER
PIC LEVEL Q05
INT
TO
TI
CLOCK
OSC
SDA
SCL
RESET
RESET Q06
+5V
ST BY Q03
REG +5V Q01
+7V
REG +12V Q02
+15V
+12V
BLK
D0
D7
OE
WE
A0
A10
A11
A12
A7
A8
A9
TTD
TTC
F6
VCS
OUT
ING
TCS
SCS
IC02 VIDEO PROCESSOR
VIDEO IN
SYNC
SYNC-BUFF Q04
SYNC TV
OSC OUT
OSC IN
CLOCK X'TAL
X01
X02
A/C OUT
R IN
G IN
B IN
R.G.B A/C Q704,707,710
Q702,705,708
R.G.B OUT Q703,706,709
R.G.B OUT
R.G.B
V901 PICTURE TUBE
H.
H.V.
G2
RV703 G-DRIVE
RV704 R-DRIVE
C (R.G.B OUT)
VM (VM AMP)
Q.P.+
Q.P.−
+28V
C.PROTECT Q756,757
VM COIL
VM AMP Q751−753
VM OUT Q754,755
VM OUT
53
49
51
52
58
VIDEO BUFF Q503
VIDEO
BRIGHT ABL OUT Q1609
ABL. FEEDBACK Q1613
PIC.ABL. OUT Q1608
ABL DRIVE Q1610
+135V
D (JUNGL, 50/60 SW, PIN AMP. H·V OUT, COMPAPATOR.)
IC501 JUNGLE
V. ZOOMING Q502
V.RAMP GEN
VCR
SCP OUT
MUTING 50/60
O2
FBP IN
HD OUT
V-BLK OUT
VIDEO IN
SAFETY IN
O1
VCO OUT
VCO IN
SAFETY V-BLK
VD OUT
VIDEO AMP Q591
VIDEO AMP Q598
+B DET-2 Q807
+B1 DET Q806
CF501
IC502 V OUT
REF
IN
OUT
RV1507 V. SIZE
RV1509
V. ANGLE
50/60 SW Q501
50/60 LIN SW Q509,510
-BLK Q507
RV1506 V.CENT
V CENT Q505,506
+V. DY
+O. DY
−O. DY
−V. DY
DY
CY−
CY+
PIN MOD D1552
RV1504 H.SIZE
FBP. BUFF-I Q1701
RV1701 H. TILT
IC1701 COMPARATOR
CORRENT AMP Q1708
CONT. SW Q1703
INVETURE Q1704
CURRENT SOURCE Q1705
DC. CLUMP Q1706
IC1702 FUNCTION
V. PARABOLA OUT Q1707
VP. AMP Q1717
V. PARA. EQ Q1711
RV1705 Y. CROSS
V.P. BUFF Q1712
V. PARABOLA AMP Q1709
Y-BOE SW Q1716
RV1702 Y. BOW
IC1501 PIN OUT
USCITA PILOTA SPICOLO Q1551,1552
OUT
X OUT
COMP
X IN 2
X IN 1
RV1505 CORNE COR
RV1505 CORNER COR
RV1503 PIN AMP
H. AMP Q1710
RV1704 H. AMP
RV1703 C. BOW
CND801 H. CENT
+200V
200V RECT D802
+28V
28V RECT D801
+15V
15V RECT D850
T802 F.B.T.
H. DRIVE Q805
T801 H.D.T
H.OUT Q804
G2 RECT D803
H1,H2
H. V.
F. V.
G2

5-2. CIRCUIT BOARDS LOCATION


D
C
V
B
A
K
H1
H2
VM
F
J

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

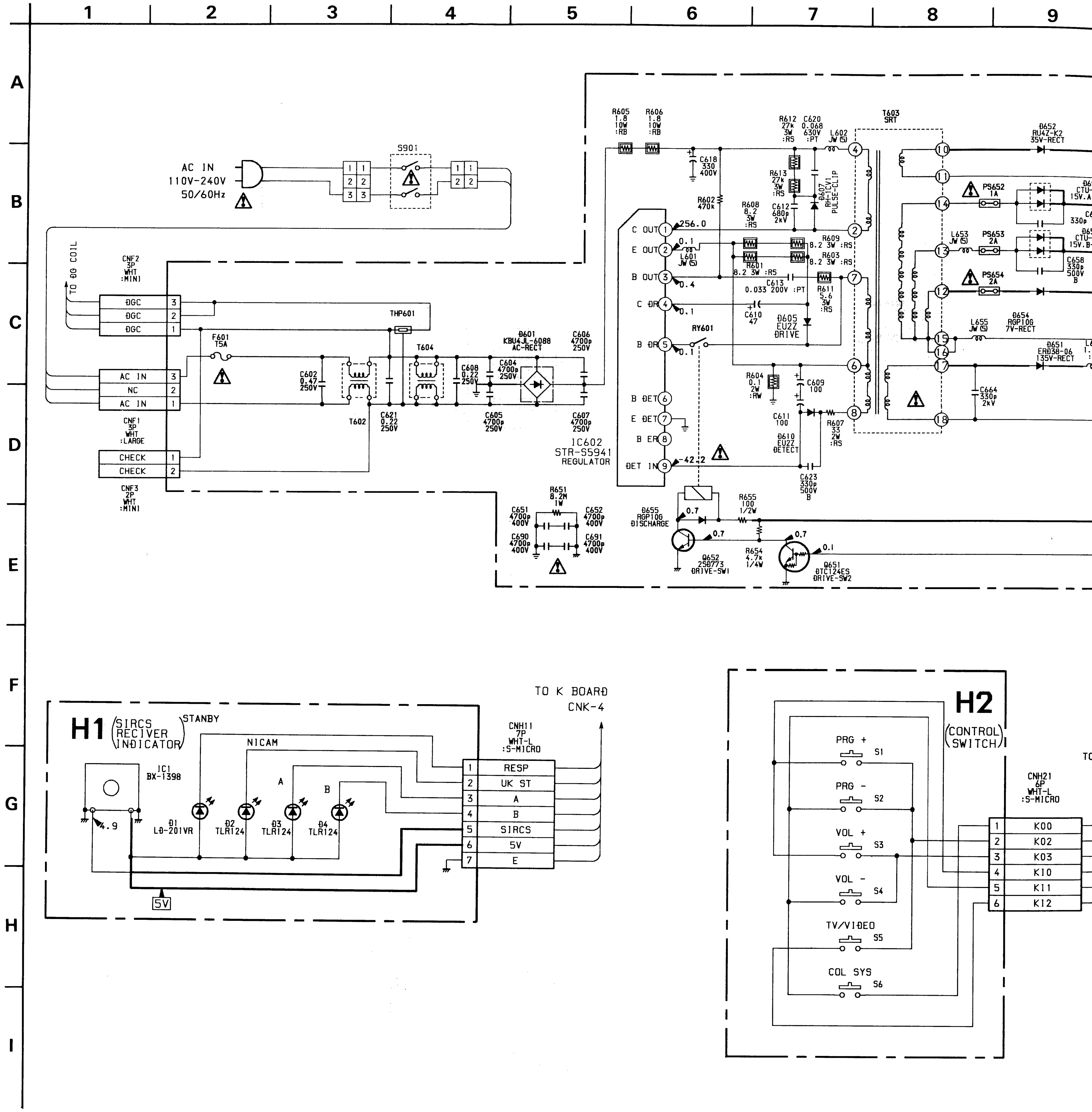
Note:

- All capacitors are in μF unless otherwise noted. p:μμF 50WV or less are not indicated except for electrolytic and tantalums.
- Electrolytic capacitors with resisting pressure are not indicated.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

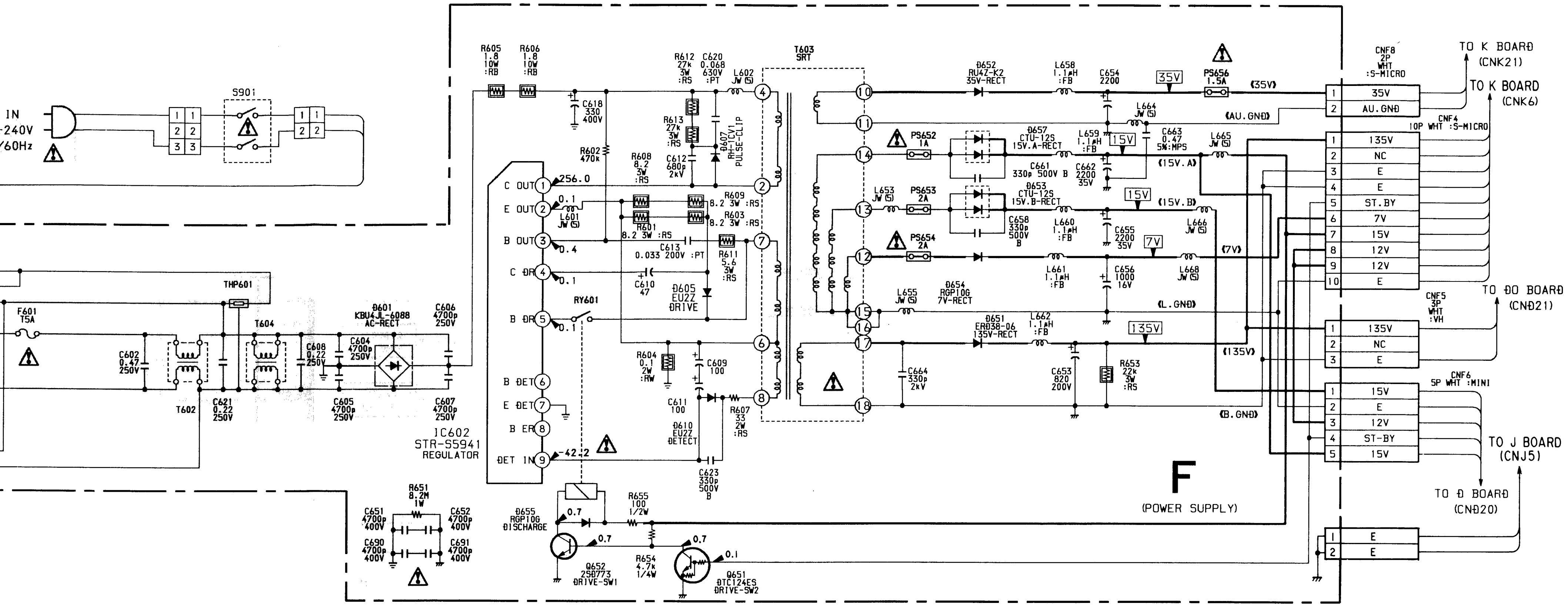
  Pitch: 5 mm
  Rating electrical power: 1/4W

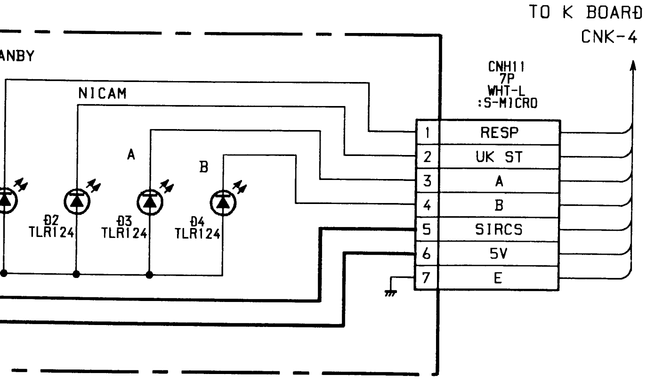
- ▭ : nonflamable resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- ✳ : Can not be measured.
- Circled numbers are waveform references.
- —— : B + bus.
- - - - : B − bus.
- ➡ : signal path.

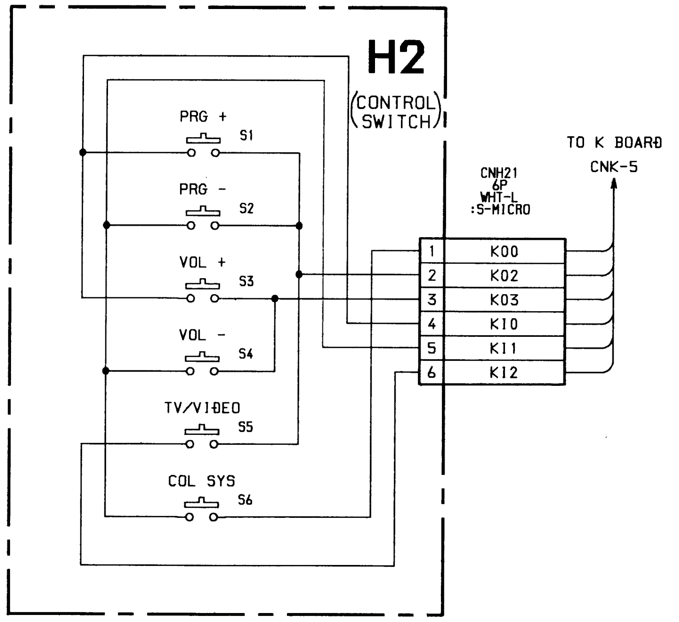
5-3. SCHEMATIC DIAGRAM (1)

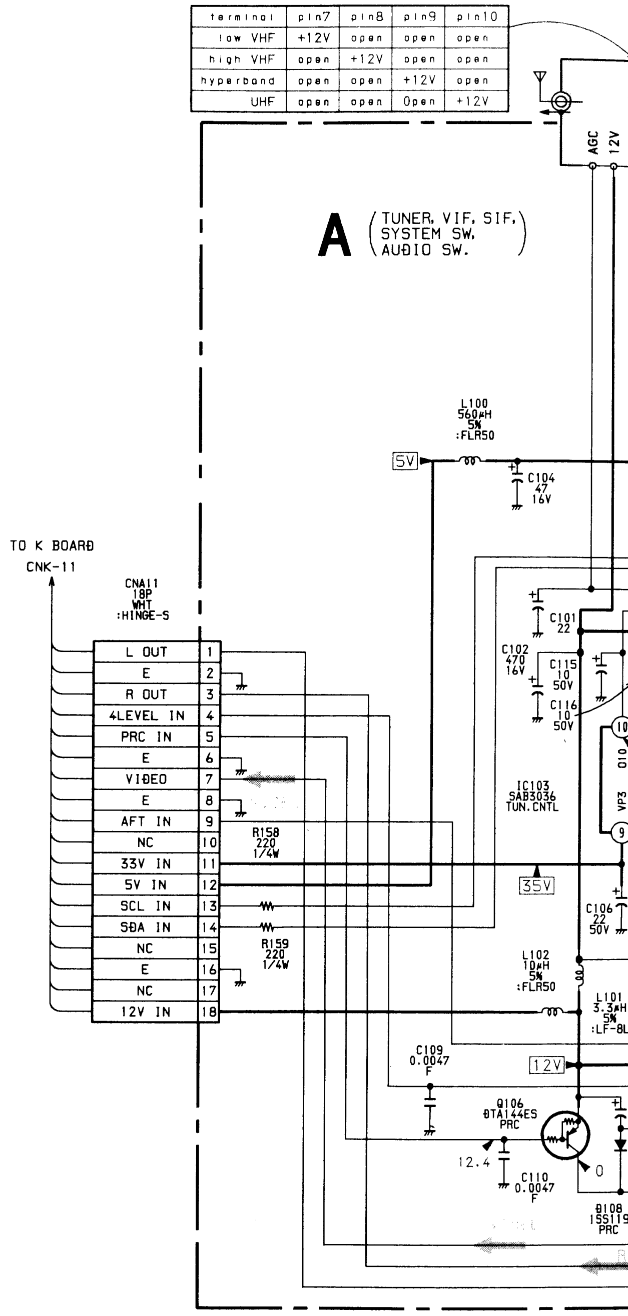

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
AC IN
110V-240V
50/60Hz
S901
TO DG COIL
CNF2
3P
WHT
:MINI
DGC
AC IN
NC
CNF1
3P
WHT
:LARGE
CHECK
CNF3
2P
WHT
:MINI
F601
T5A
THP601
T604
T602
C602
0.47
250V
C621
0.22
250V
C608
0.22
250V
C604
4700p
250V
D601
KBU4JL-6088
AC-RECT
C606
4700p
250V
C605
4700p
250V
C607
4700p
250V
IC602
STR-S5941
REGULATOR
C OUT
E OUT
B OUT
C DR
B DR
B DET
E DET
B ER
DET IN
256.0
42.2
R605
1.8
10W
:RB
R606
1.8
10W
:RB
C618
330
400V
R602
470k
R608
8.2
3W
:RS
R612
27k
3W
:RS
C620
0.068
630V
:PT
R613
27k
3W
:RS
C612
680p
2kV
L602
D607
RH-1CV1
PULSE-CLIP
R609
8.2 3W :RS
R603
8.2 3W :RS
R601
8.2 3W :RS
L601
C613
0.033 200V :PT
C610
47
R611
5.6
3W
:RS
D605
EU2Z
DRIVE
RY601
R604
0.1
2W
:RW
C609
100
C611
100
D610
EU2Z
DETECT
R607
33
2W
:RS
C623
330p
500V
B
T603
SRT
D652
RU4Z-K2
35V-RECT
PS652
1A
PS653
2A
PS654
2A
L653
L655
C658
330p
500V
B
D654
RGP10G
7V-RECT
D651
ERD38-06
135V-RECT
C664
330p
2kV
R651
8.2M
1W
C651
4700p
400V
C652
4700p
400V
C690
4700p
400V
C691
4700p
400V
D655
RGP10G
DISCHARGE
R655
100
1/2W
R654
4.7k
1/4W
Q652
2SD773
DRIVE-SW1
Q651
DTC124ES
DRIVE-SW2
0.7
0.1
H1
SIRCS
RECIVER
INDICATOR
STANBY
NICAM
IC1
BX-1398
4.9
D1
LD-201VR
D2
TLR124
D3
TLR124
D4
TLR124
TO K BOARD
CNK-4
CNH11
7P
WHT-L
:S-MICRO
RESP
UK ST
SIRCS
5V
E
H2
CONTROL
SWITCH
PRG +
S1
PRG −
S2
VOL +
S3
VOL −
S4
TV/VIDEO
S5
COL SYS
S6
CNH21
6P
WHT-L
:S-MICRO
K00
K02
K03
K10
K11
K12

AM (1)


F
(POWER SUPPLY)
IC602
STR-S5941
REGULATOR
T603
SRT
D601
KBU4JL-6088
AC-RECT
F601
T5A
S901
THP601
RY601
CNF8
2P
WHT
:S-MICRO
35V
AU.GND
TO K BOARD
(CNK21)
TO K BOARD
(CNK6)
CNF4
10P WHT :S-MICRO
135V
NC
E
E
ST.BY
7V
15V
12V
12V
E
TO ĐD BOARD
(CNĐ21)
CNF5
3P
WHT
:VH
135V
NC
E
CNF6
5P WHT :MINI
15V
E
12V
ST-BY
15V
TO J BOARD
(CNJ5)
TO Đ BOARD
(CNĐ20)
E
E
D652
RU4Z-K2
35V-RECT
D657
CTU-12S
15V.A-RECT
D653
CTU-12S
15V.B-RECT
D654
RGP10G
7V-RECT
D651
ERD38-06
135V-RECT
D605
EU2Z
DRIVE
D610
EU2Z
DETECT
D607
RH-1CV1
PULSE-CLIP
D655
RGP10G
DISCHARGE
Q652
2SD773
DRIVE-SW1
Q651
DTC124ES
DRIVE-SW2
PS652 1A
PS653 2A
PS654 2A
PS656 1.5A
256.0
0.1
0.4
0.1
0.1
-42.2
0.7
0.7
0.7
0.1

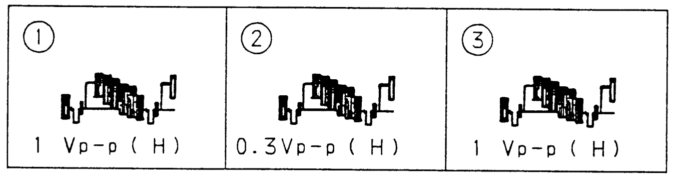

TO K BOARD
CNK-4
CNH11
7P
WHT-L
:S-MICRO
ANBY
NICAM
A
B
D2
TLR124
D3
TLR124
D4
TLR124
RESP
UK ST
A
B
SIRCS
5V
E


H2
(CONTROL SWITCH)
PRG + S1
PRG - S2
VOL + S3
VOL - S4
TV/VIDEO S5
COL SYS S6
TO K BOARD
CNK-5
CNH21
6P
WHT-L
:S-MICRO
K00
K02
K03
K10
K11
K12

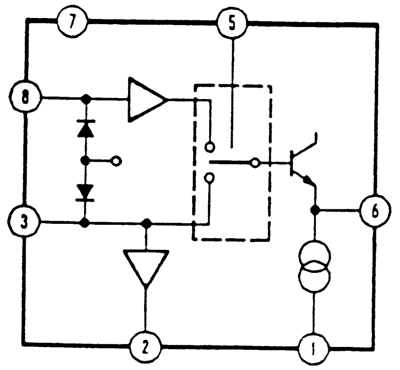

A
(TUNER, VIF, SIF, SYSTEM SW, AUDIO SW.)
TO K BOARD
CNK-11
CNA11
18P
WHT
:HINGE-S
L OUT
E
R OUT
4LEVEL IN
PRC IN
E
VIDEO
E
AFT IN
NC
33V IN
5V IN
SCL IN
SDA IN
NC
E
NC
12V IN
IC103
SAB3036
TUN.CNTL
Q106
DTA144ES
PRC
5V
35V
12V
AGC
12V

terminal	pin7	pin8	pin9	pin10
low VHF	+12V	open	open	open
high VHF	open	+12V	open	open
hyperband	open	open	+12V	open
UHF	open	open	Open	+12V

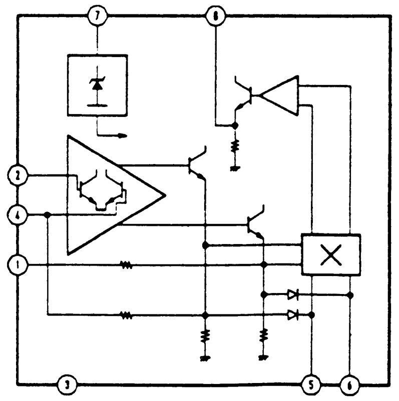
• A BOARD WAVEFORM

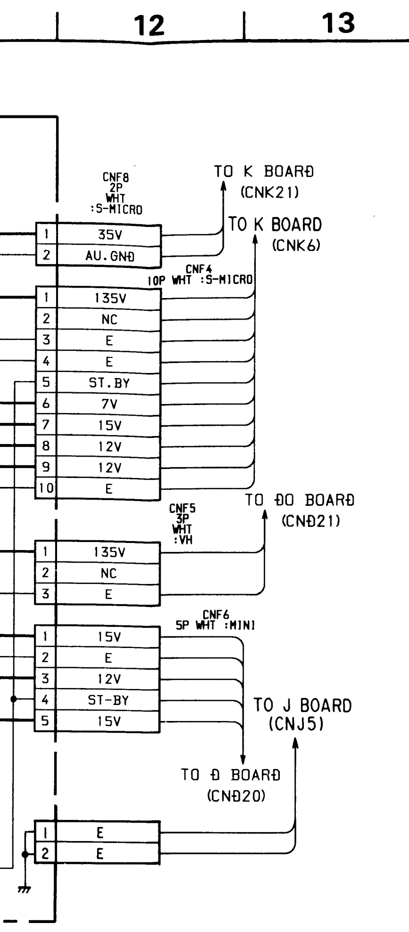


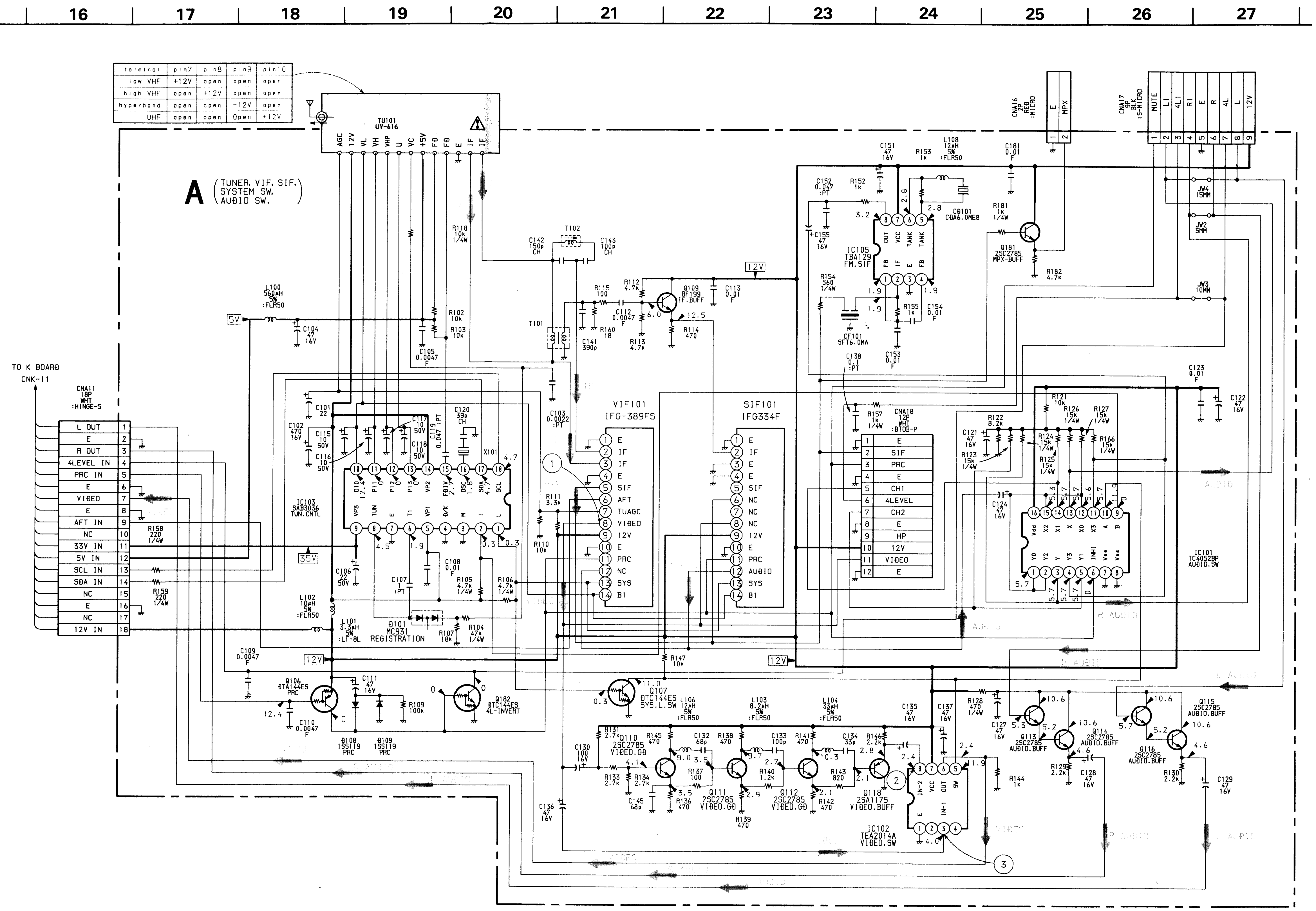
• A BOARD IC102 TEA2014A



• A BOARD IC105 TAB129

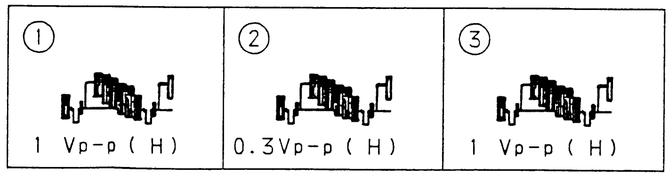



12
13
14
CNF8 2P WHT :S-MICRO
TO K BOARD (CNK21)
TO K BOARD (CNK6)
35V
AU.GND
CNF4 10P WHT :S-MICRO
135V
NC
E
E
ST.BY
7V
15V
12V
12V
E
CNF5 3P WHT :VH
TO DD BOARD (CND21)
135V
NC
E
CNF6 5P WHT :MINI
15V
E
12V
ST-BY
15V
TO J BOARD (CNJ5)
TO D BOARD (CND20)
E
E

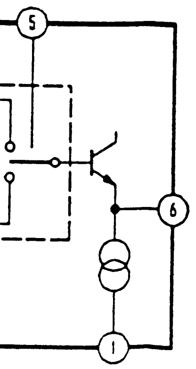

15
16
17
18
19
20
21
22
23
24
25
26
27
A (TUNER, VIF, SIF, SYSTEM SW, AUDIO SW)
TU101 UV-616
AGC
12V
VL
VH
VHP
U
VC
+5V
FD
FD
E
IF
IF
TO K BOARD CNK-11
CNA11 18P WHT :HINGE-S
L OUT
E
R OUT
4LEVEL IN
PRC IN
E
VIDEO
E
AFT IN
NC
33V IN
5V IN
SCL IN
SDA IN
NC
E
NC
12V IN
IC103 SAB3036 TUN.CNTL
X101
D101 MC931 REGISTRATION
VIF101 IFG-389FS
SIF101 IFG334F
T101
T102
Q109 BF199 IF.BUFF
IC105 TBA129 FM.SIF
CF101 SFT6.0MA
CD101 CBA6.0ME8
Q181 2SC2785 MPX-BUFF
CNA16 2P RED :MICRO
E
MPX
CNA17 9P BLK :S-MICRO
MUTE
L1
4L1
R1
E
R
4L
L
12V
JW4 15MM
JW2 5MM
JW3 10MM
CNA18 12P WHT :BTOB-P
E
SIF
PRC
E
CH1
4LEVEL
CH2
E
HP
12V
VIDEO
E
IC101 TC4052BP AUDIO.SW
Q106 DTA144ES PRC
Q108 1SS119 PRC
Q109 1SS119 PRC
Q182 DTC144ES 4L-INVERT
Q107 DTC144ES SYS.L.SW
Q110 2SC2785 VIDEO.GD
Q111 2SC2785 VIDEO.GD
Q112 2SC2785 VIDEO.GD
Q118 2SA1175 VIDEO.BUFF
IC102 TEA2014A VIDEO.SW
Q113 2SC2785 AUDIO.BUFF
Q114 2SC2785 AUDIO.BUFF
Q115 2SC2785 AUDIO.BUFF
Q116 2SC2785 AUDIO.BUFF
L AUDIO
R AUDIO
5V
12V
35V
①
②
③

terminal	pin7	pin8	pin9	pin10
low VHF	+12V	open	open	open
high VHF	open	+12V	open	open
hyperband	open	open	+12V	open
UHF	open	open	Open	+12V

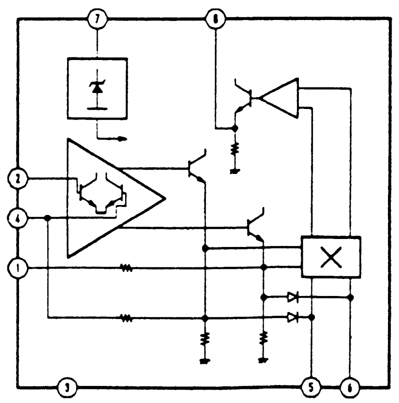
• A BOARD WAVEFORM



102 TEA2014A



• A BOARD IC105 TAB129



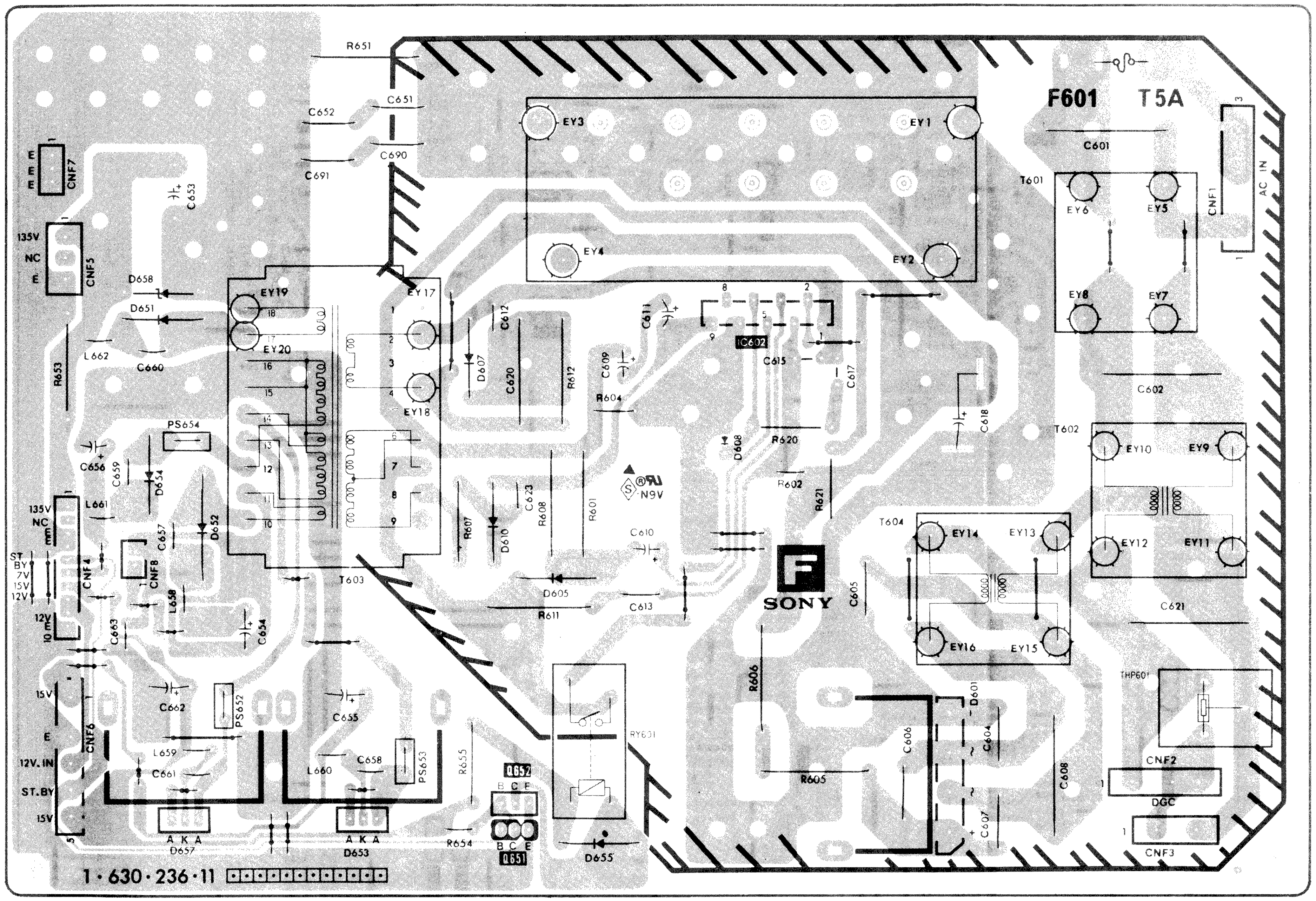
5-4. PRINTED WIRING BOARD (1)

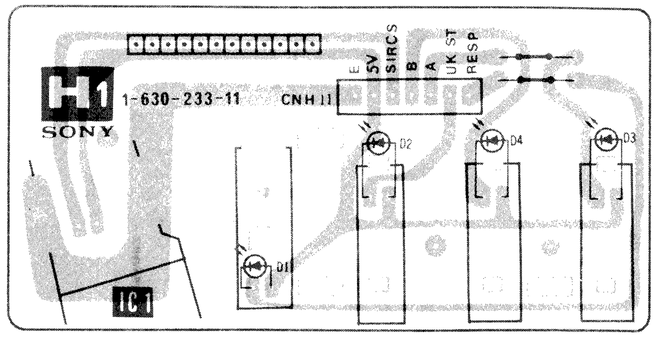
-CONDUCTOR SIDE-

[POWER SUPPLY] **F**

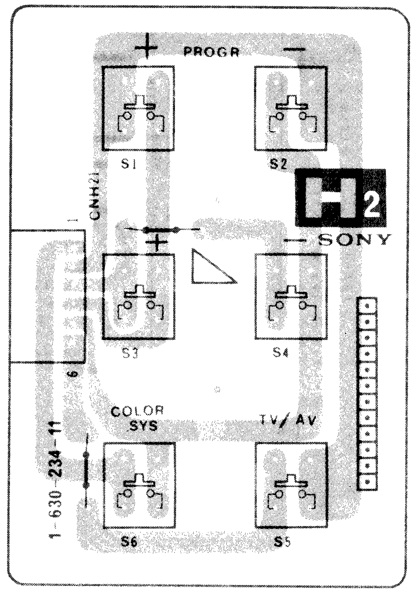
F **H1** [SIRCS, RECIVER INDICATER] **H2** [CONTROL SWITCH]

-F BOARD-

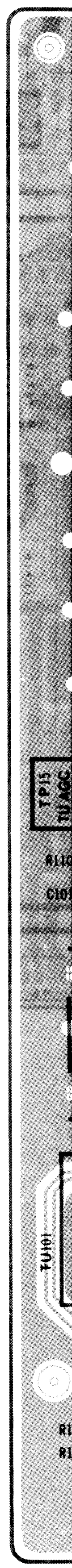

R651
C652
C651
C690
C691
F601
T5A
C601
T601
EY1
EY2
EY3
EY4
EY5
EY6
EY7
EY8
EY9
EY10
EY11
EY12
EY13
EY14
EY15
EY16
EY17
EY18
EY19
EY20
CNF1
AC IN
CNF7
C653
135V
NC
E
CNF5
D658
D651
L662
C660
R653
PS654
C656
C659
D654
L661
D652
C657
CNF8
CNF4
ST
BY
7V
15V
12V
L658
C663
C654
T603
C611
C612
D607
C620
R612
C609
R604
IC602
C615
C617
C618
C602
T602
D608
R620
R602
R621
R607
D610
C623
R608
R601
C610
D605
R611
C613
N9V
SONY
C605
T604
C621
R606
D601
C604
C606
C608
C607
R605
THP601
CNF2
DGC
CNF3
RY601
D655
Q652
Q651
B C E
R654
R655
PS653
C658
L660
D653
A K A
D657
C655
PS652
C662
L659
C661
CNF6
12V. IN
ST.BY
15V
1·630·236·11


H1
SONY
1-630-233-11
CNH11
E
5V
SIRCS
B
A
UK ST
RESP
D1
D2
D3
D4
IC1

-H2 BOARD-

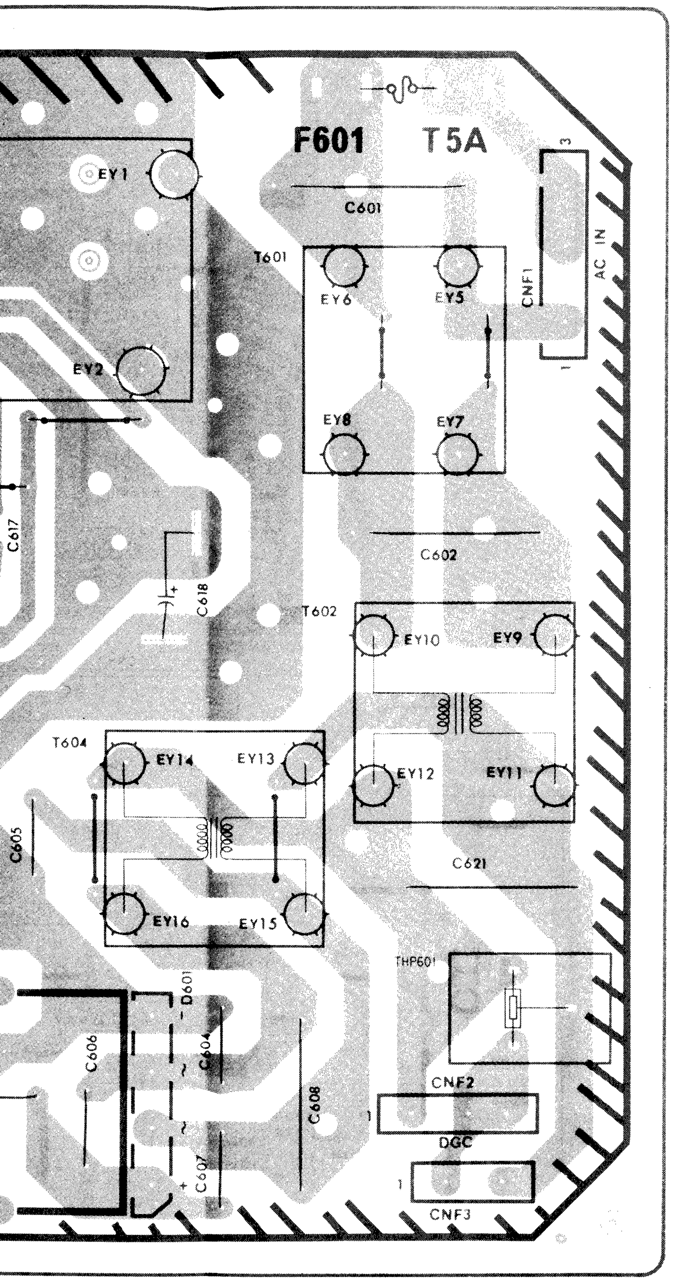

+
PROGR
−
S1
S2
CNH21
H2
SONY
S3
S4
COLOR SYS
TV/AV
S6
S5
1-630-234-11

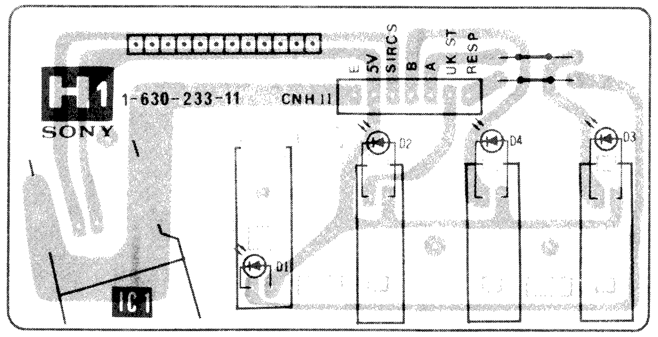
-A B


TP15
TUAGC
R110
C101
TU101

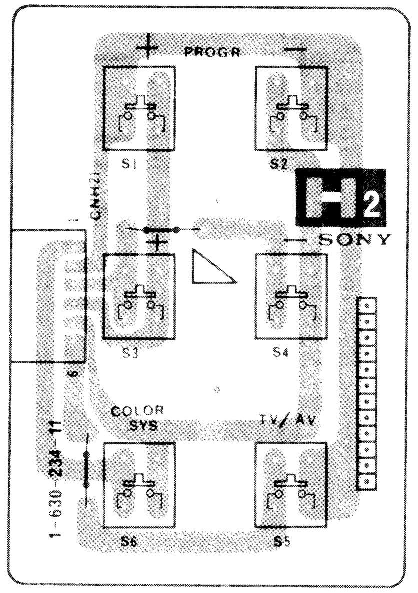
PLY] **F**

F **H1** [SIRCS, RECIVER INDICATER] **H2** [CONTROL SWITCH]


F601
T5A
C601
T601
EY1
EY2
EY5
EY6
EY7
EY8
CNF1
AC IN
C602
C617
C618
T602
EY9
EY10
EY11
EY12
T604
EY13
EY14
EY15
EY16
C605
C621
THP601
D601
C604
C606
C607
C608
CNF2
DGC
CNF3

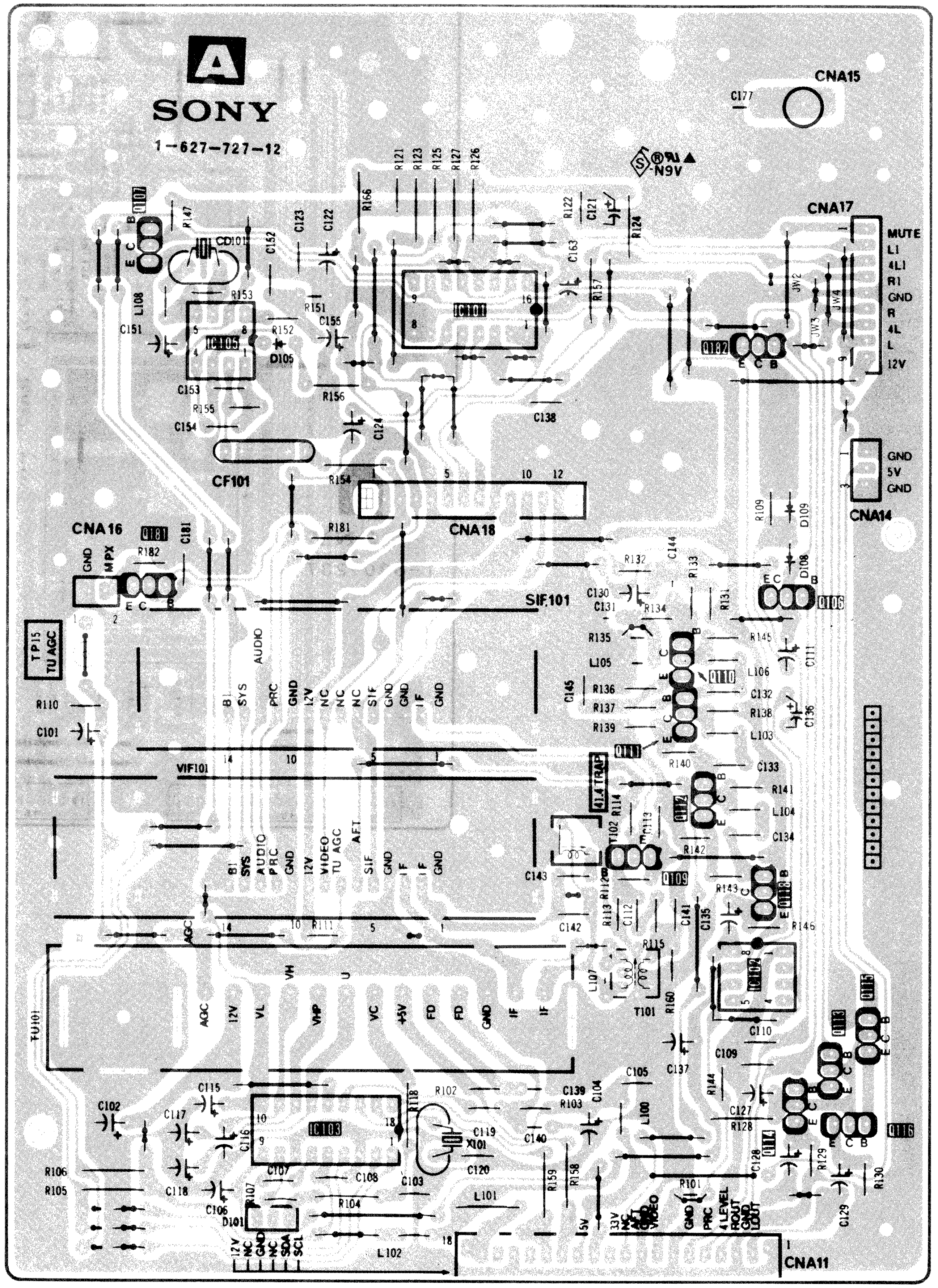

H1
SONY
1-630-233-11
CNH11
E
5V
SIRCS
B
A
UK ST
RESP
D1
D2
D3
D4
IC1

-H2 BOARD-


PROGR
+
−
S1
S2
S3
S4
S5
S6
CNH21
H2
SONY
COLOR SYS
TV/AV
1-630-234-11

[TUNER, VIF, SIF SYSTEM SW, AUDIO SW] **A**

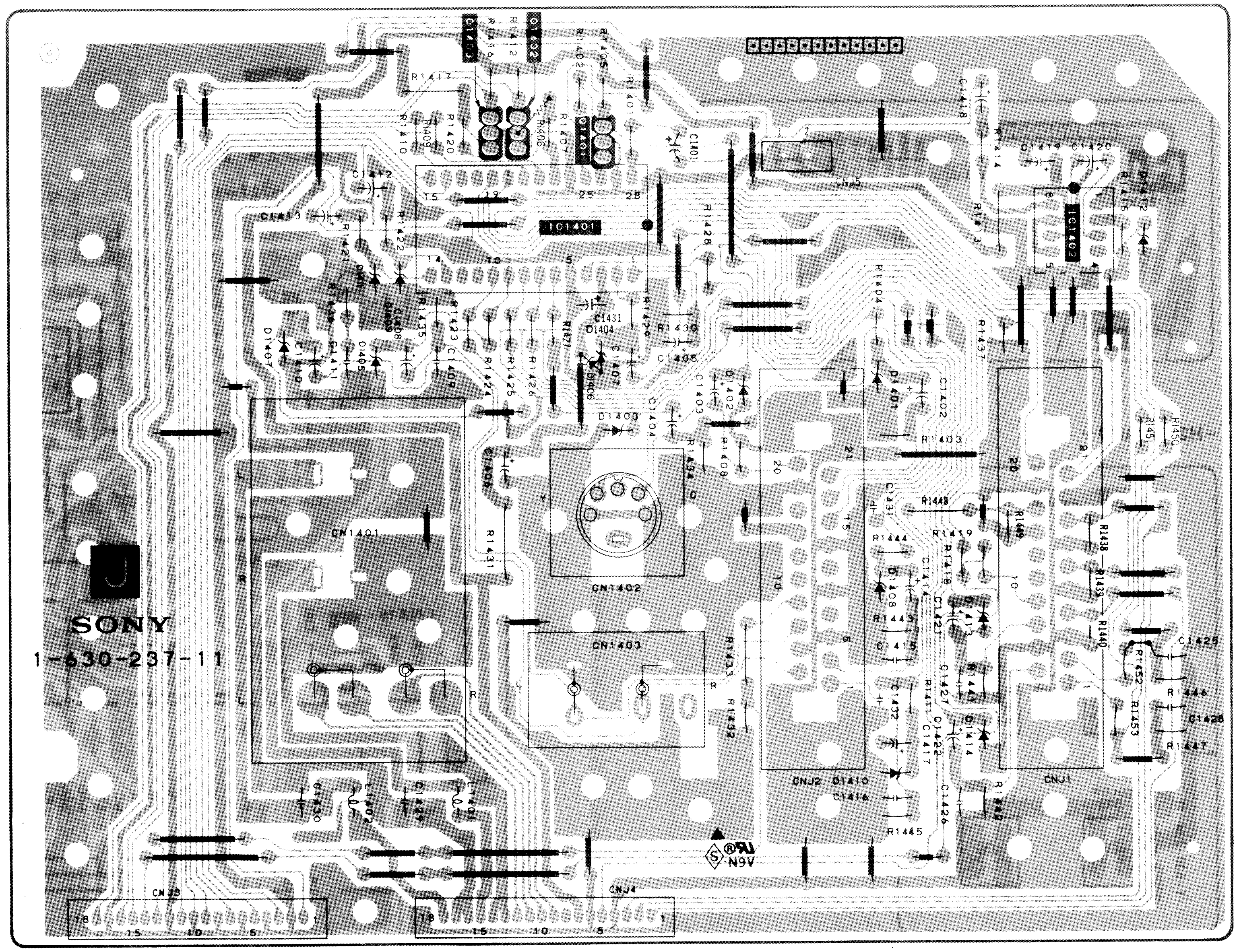
-A BOARD-


A
SONY
1-627-727-12
CNA15
C177
N9V
CNA17
MUTE
L1
4L1
R1
GND
R
4L
L
12V
Q107
CD101
IC101
IC105
D105
Q182
JW2
JW3
JW4
CF101
CNA18
CNA14
GND
5V
GND
CNA16
Q181
R182
C181
GND
MPX
D109
D108
Q106
SIF101
TP15
TU AGC
Q110
Q111
Q112
Q113
Q109
VIF101
B1
SYS
AUDIO
PRC
GND
12V
NC
SIF
IF
GND
VIDEO
TU AGC
AFT
T101
IC102
TU101
AGC
12V
VL
VH
VHP
VC
+5V
FD
GND
IF
IC103
X101
D101
L101
L102
Q114
Q115
Q116
Q117
Q118
CNA11
12V
NC
GND
NC
SDA
SCL
5V
33V
NC
AFT
VIDEO
GND
PRC
4 LEVEL
ROUT
GND
LOUT

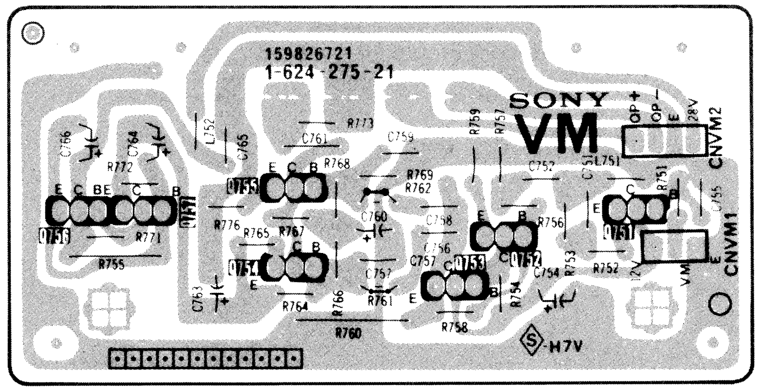
PRINTED WIRING BOARD (2)

-CONDUCTOR SIDE-

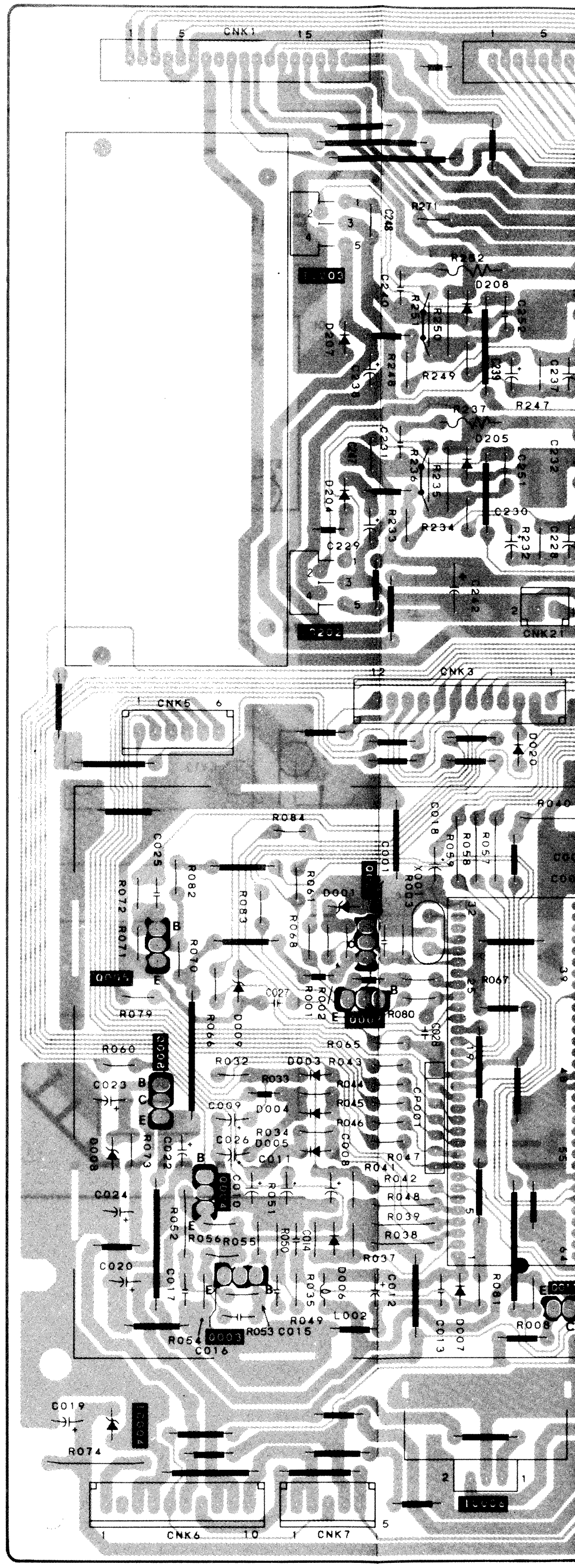
-J BOARD-


SONY
1-630-237-11
IC1401
IC1402
CN1401
CN1402
CN1403
CNJ1
CNJ2
CNJ3
CNJ4
CNJ5
N9V

-VM BOARD-

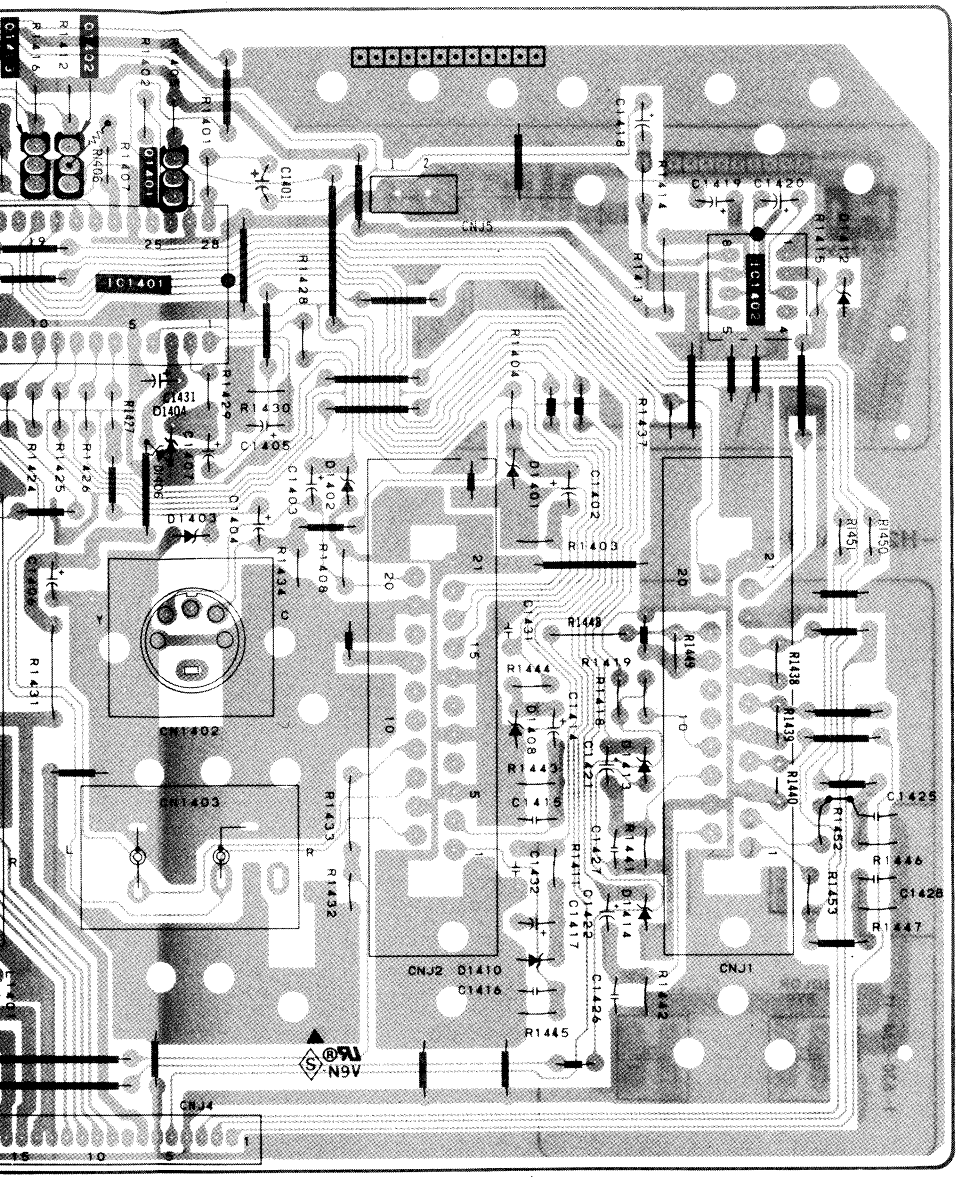

159826721
1-624-275-21
SONY
VM
CNVM1
CNVM2
H7V

-K BOARD-

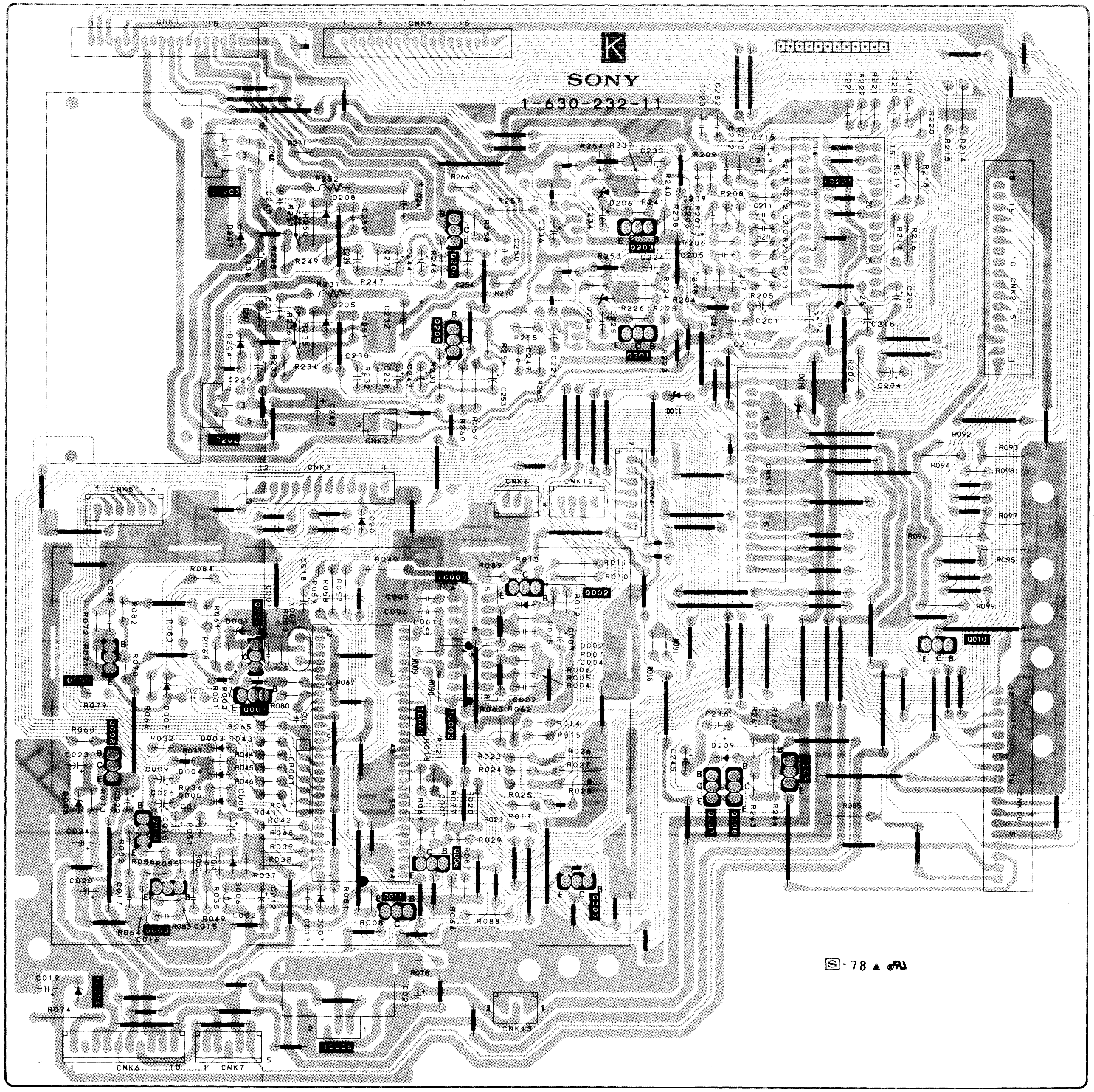

CNK1
CNK2
CNK3
CNK5
CNK6
CNK7

[VM AMP] **VM** [AV INTERFACE] **J** **K**

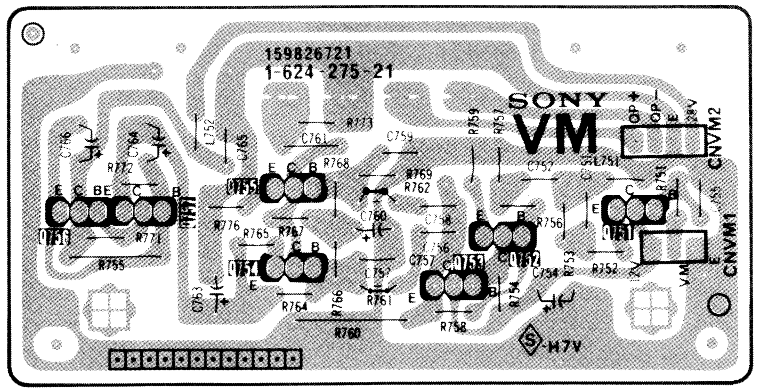
K [TUNING CONTROL, AUDIO CONTROL
AUDIO OUT]

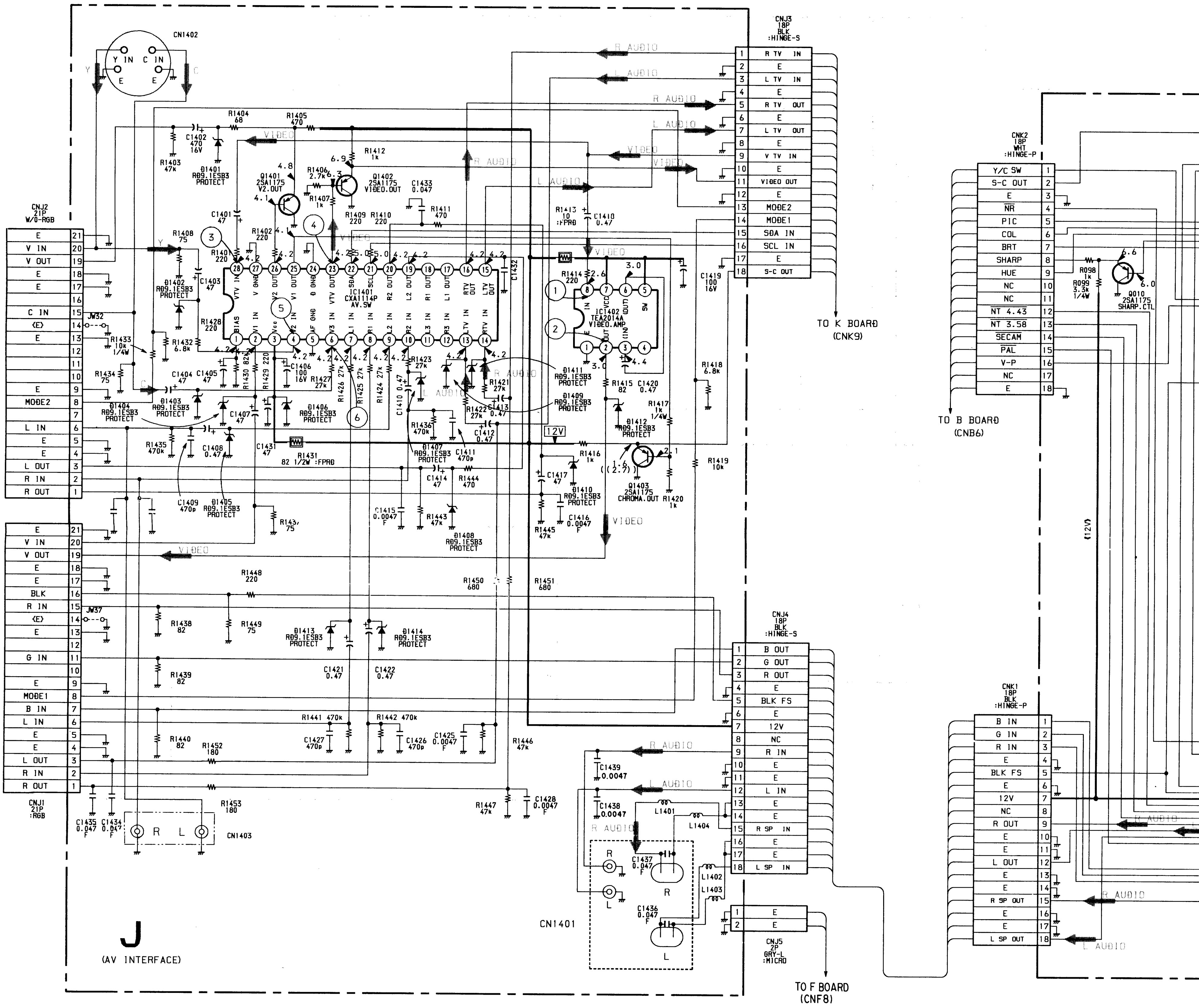

CN1402
CN1403
CNJ5
CNJ2
CNJ1
CNJ4
IC1401
IC1402
N9V

-K BOARD-

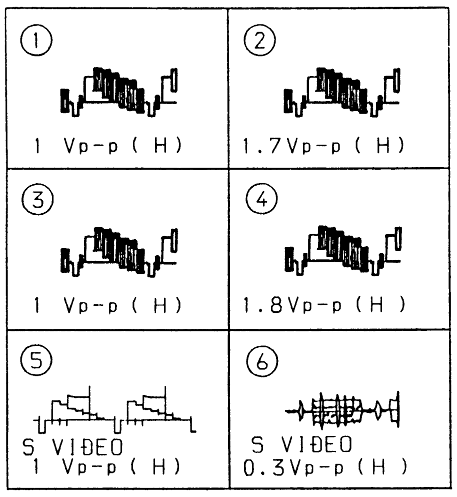

K
SONY
1-630-232-11
CNK1
CNK9
CNK2
CNK3
CNK4
CNK5
CNK6
CNK7
CNK8
CNK10
CNK11
CNK12
CNK13
CNK21
IC201
S-78

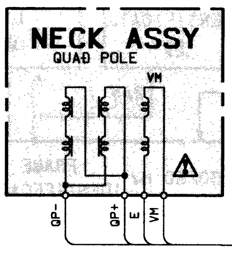
-VM BOARD-

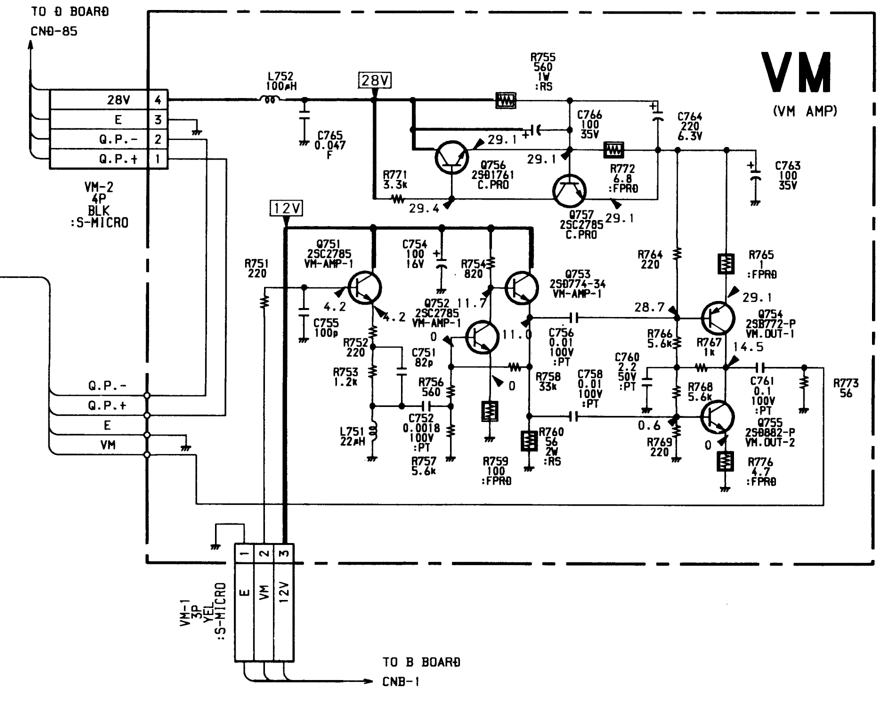

159826721
1-624-275-21
SONY
VM
CNVM1
CNVM2
H7V

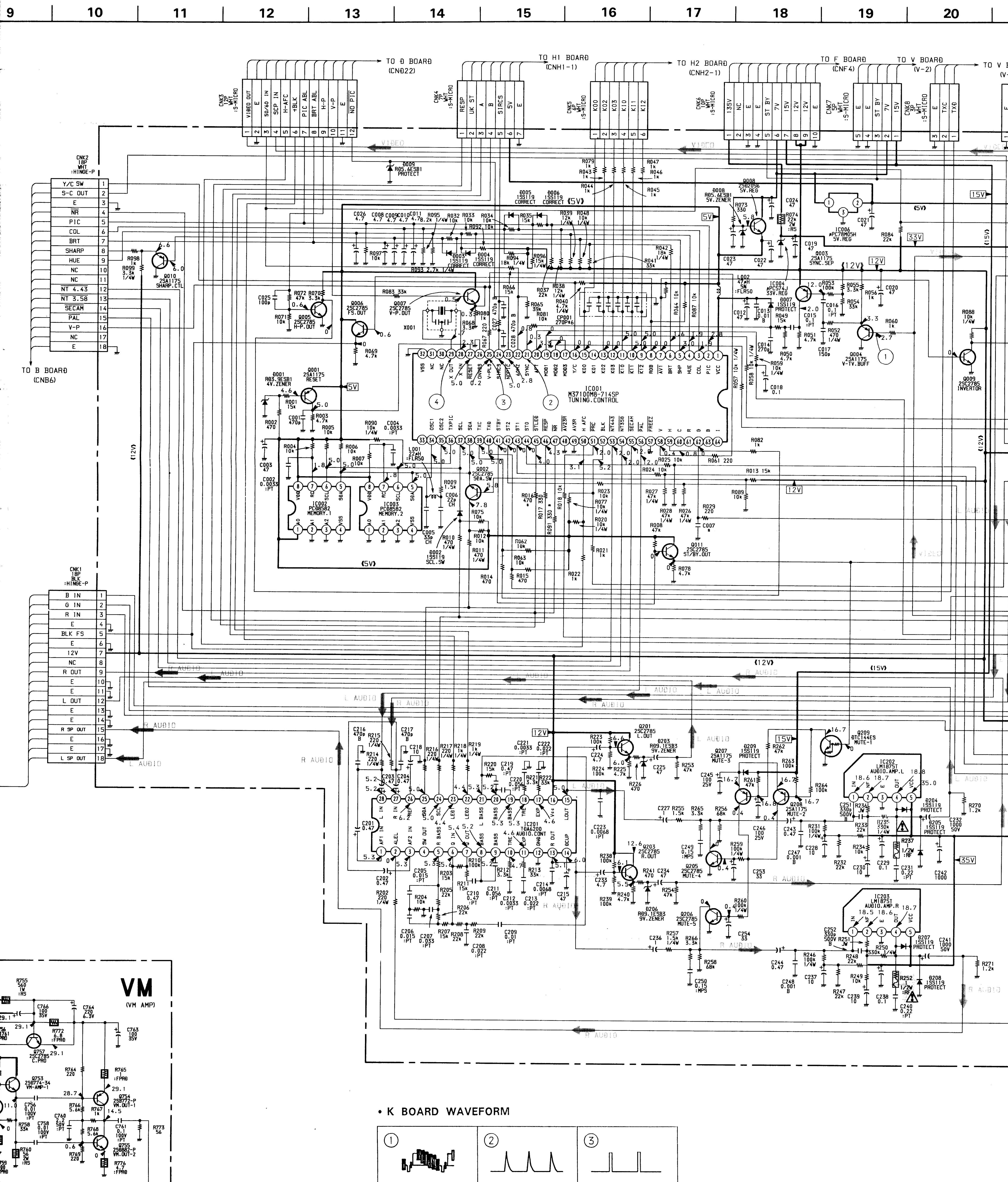

CN1402
Y IN
C IN
CNJ2
21P
W/0-RGB
E
V IN
V OUT
C IN
⟨E⟩
MODE2
L IN
L OUT
R IN
R OUT
IC1401
CXA1114P
AV.SW
IC1402
TEA2014A
VIDEO.AMP
Q1401
2SA1175
V2.OUT
Q1402
2SA1175
VIDEO.OUT
Q1403
2SA1175
CHROMA.OUT
CNJ3
18P
BLK
:HINGE-S
R TV IN
L TV IN
R TV OUT
L TV OUT
V TV IN
VIDEO OUT
MODE2
MODE1
SDA IN
SCL IN
S-C OUT
TO K BOARD
(CNK9)
CNK2
18P
WHT
:HINGE-P
Y/C SW
S-C OUT
NR
PIC
COL
BRT
SHARP
HUE
NC
NT 4.43
NT 3.58
SECAM
PAL
V-P
Q010
2SA1175
SHARP.CTL
TO B BOARD
(CNB6)
BLK
R IN
G IN
MODE1
B IN
CNJ1
21P
:RGB
CN1403
CNJ4
18P
BLK
:HINGE-S
B OUT
G OUT
R OUT
BLK FS
12V
NC
L IN
R SP IN
L SP IN
CNK1
18P
BLK
:HINGE-P
R SP OUT
L SP OUT
CN1401
CNJ5
2P
GRY-L
:MICRO
TO F BOARD
(CNF8)
R AUDIO
L AUDIO
VIDEO
J
(AV INTERFACE)

• J BOARD WAVEFORM

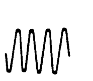
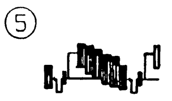
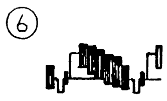


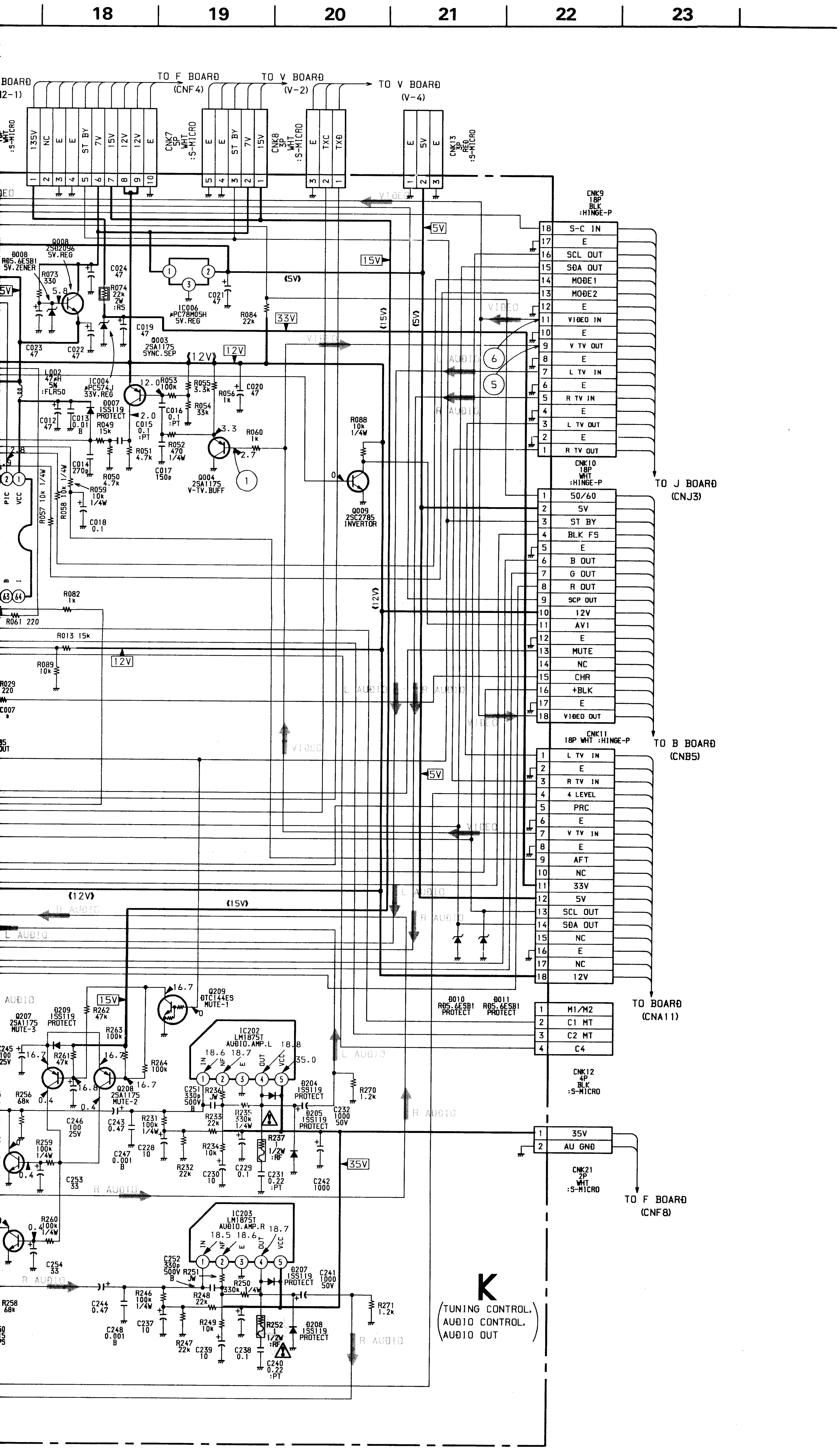

NECK ASSY
QUAD POLE
VM
QP-
QP+
E
VM


TO B BOARD
CNB-85
28V
E
Q.P.-
Q.P.+
VM-2
4P
BLK
:S-MICRO
VM
(VM AMP)
Q751
2SC2785
VM-AMP-1
Q752
2SC2785
VM-AMP-1
Q753
2SB774-34
VM-AMP-1
Q754
2SB772-P
VM.OUT-1
Q755
2SB882-P
VM.OUT-2
Q756
2SD1761
C.PRO
Q757
2SC2785
C.PRO
12V
VM-1
3P
YEL
:S-MICRO
TO B BOARD
CNB-1

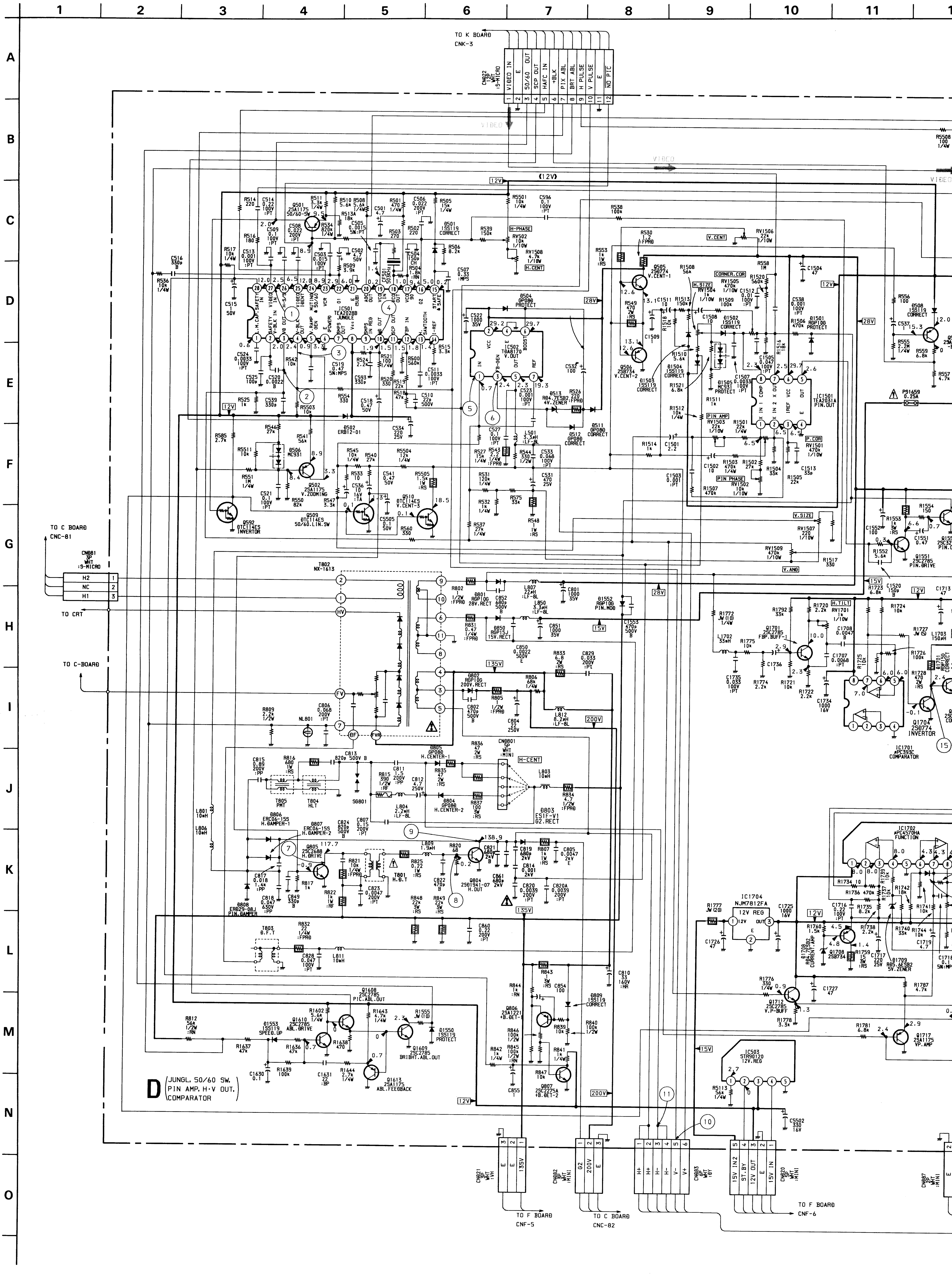

9
10
11
12
13
14
15
16
17
18
19
20
TO D BOARD (CND22)
TO H1 BOARD (CNH1-1)
TO H2 BOARD (CNH2-1)
TO F BOARD (CNF4)
TO V BOARD (V-2)
CNK3 12P WHT :S-MICRO
VIDEO OUT
E
50/60 IN
SCP IN
H-AFC
+BLK
PIC ABL
BRT ABL
H-P
V-P
E
NO PIC
CNK4 7P WHT
RESP
UK ST
A
B
SIRCS
5V
E
CNK5 6P WHT :S-MICRO
K00
K02
K03
K10
K11
K12
CNK6 10P WHT :S-MICRO
135V
NC
E
E
ST BY
7V
15V
12V
12V
CNK7 5P WHT :S-MICRO
E
E
ST BY
7V
15V
CNK8 3P WHT :S-MICRO
E
TXC
TXD
CNK2 18P WHT :HINGE-P
Y/C SW
S-C OUT
E
NR
PIC
COL
BRT
SHARP
HUE
NC
NC
NT 4.43
NT 3.58
SECAM
PAL
V-P
NC
E
TO B BOARD (CNB6)
IC001 M37100M8-714SP TUNING.CONTROL
IC002 PCD8582 MEMORY.1
IC003 PCD8582 MEMORY.2
IC004 μPC574J 33V.REG
IC006 μPC78M05H 5V.REG
Q001 2SA1175 RESET
Q002 2SC2785 SDA.SW
Q003 2SA1175 SYNC.SEP
Q004 2SA1175 V-TV.BUFF
Q005 2SC2785 H-P.OUT
Q006 2SC2785 FS.OUT
Q007 2SC2785 V-P.OUT
Q008 2SD2096 5V.REG
Q009 2SC2785 INVERTOR
Q010 2SA1175 SHARP.CTL
Q011 2SC2785 ST/BY.OUT
X001
CNK1 18P BLK :HINGE-P
B IN
G IN
R IN
E
BLK FS
E
12V
NC
R OUT
E
E
L OUT
E
E
R SP OUT
E
E
L SP OUT
R AUDIO
L AUDIO
VIDEO
(5V)
(12V)
(15V)
15V
33V
35V
IC201 TDA4200 AUDIO.CONT
IC202 LM1875T AUDIO.AMP.L
IC203 LM1875T AUDIO.AMP.R
Q201 2SC2785 L.OUT
Q203 2SC2785 R.OUT
Q205 2SC2785 MUTE-4
Q206 2SC2785 MUTE-5
Q207 2SA1175 MUTE-3
Q208 2SA1175 MUTE-2
Q209 DTC144ES MUTE-1
VM
(VM AMP)
Q753 2SB774-34 VM-AMP-1
Q754 2SB772-P VM.OUT-1
Q755 2SD882-P VM.OUT-2
Q757 2SC2785 C.PRO

• K BOARD WAVEFORM

①  0.9Vp-p (H)	②  6 Vp-p (H)	③  5 Vp-p (V)
④ 6 Vp-p (4MHz)	⑤ 0.9Vp-p (H)	⑥ 1.5Vp-p (H)


18
19
20
21
22
23
TO F BOARD (CNF4)
TO V BOARD (V-2)
TO V BOARD (V-4)
135V
NC
E
E
ST BY
7V
15V
12V
12V
E
CNK7 5P WHT :S-MICRO
E
E
ST BY
7V
15V
CNK8 3P WHT :S-MICRO
E
TXC
TXD
E
5V
E
CNK13 3P RED :S-MICRO
CNK9 18P BLK :HINGE-P
S-C IN
E
SCL OUT
SDA OUT
MODE1
MODE2
E
VIDEO IN
E
V TV OUT
E
L TV IN
E
R TV IN
E
L TV OUT
E
R TV OUT
TO J BOARD (CNJ3)
CNK10 18P WHT :HINGE-P
50/60
5V
ST BY
BLK FS
E
B OUT
G OUT
R OUT
SCP OUT
12V
AV1
E
MUTE
NC
CHR
+BLK
E
VIDEO OUT
TO B BOARD (CNB5)
CNK11 18P WHT :HINGE-P
L TV IN
E
R TV IN
4 LEVEL
PRC
E
V TV IN
E
AFT
NC
33V
5V
SCL OUT
SDA OUT
NC
E
NC
12V
TO BOARD (CNA11)
D010 RD5.6ESB1 PROTECT
D011 RD5.6ESB1 PROTECT
M1/M2
C1 MT
C2 MT
C4
CNK12 4P BLK :S-MICRO
35V
AU GND
CNK21 2P WHT :S-MICRO
TO F BOARD (CNF8)
Q008 2SD2096 5V.REG
D008 RD5.6ESB1 5V.ZENER
R073 330
C024 47
R074 22k 2W :RS
IC006 μPC78M05H 5V.REG
C021 47
R084 22k
Q003 2SA1175 SYNC.SEP
C019 47
C023 47
C022 47
L002 47μH 5% :FLR50
IC004 μPC574J 33V.REG
D007 1SS119 PROTECT
R053 100k
R055 3.3k
R054 33k
R056 1k
C020 47
C016 0.1 :PT
C015 0.1 :PT
C012 47
C013 0.01 B
R049 15k
R051 4.7k
R052 470 1/4W
R060 1k
Q004 2SA1175 V-TV.BUFF
C014 270p
C017 150p
R050 4.7k
R059 10k 1/4W
R057 10k 1/4W
R058 10k 1/4W
C018 0.1
R088 10k 1/4W
Q009 2SC2785 INVERTOR
R082 1k
R061 220
R013 15k
R089 10k
R029 220
C007
VIDEO
L AUDIO
R AUDIO
5V
15V
33V
12V
(5V)
(15V)
(12V)
Q209 DTC144ES MUTE-1
Q207 2SA1175 MUTE-3
D209 1SS119 PROTECT
R262 47k
R263 100k
R264 100k
R261 47k
Q208 2SA1175 MUTE-2
R256 68k
C246 100 25V
C243 0.47
R231 100k 1/4W
C228 10
C247 0.001 B
R259 100k 1/4W
C253 33
IC202 LM1875T AUDIO.AMP.L
IN
NF
E
OUT
VCC
C251 330p 500V B
R236
R233 22k
R235 330k 1/4W
R234 10k
R232 22k
C230 10
C229 0.1
R237 1 1/2W :RF
D204 1SS119 PROTECT
D205 1SS119 PROTECT
C232 1000 50V
R270 1.2k
C231 0.22 :PT
C242 1000
35V
R260 100k 1/4W
C254 33
R258 68k
C244 0.47
C248 0.001 B
R246 100k 1/4W
C237 10
R247 22k
C239 10
IC203 LM1875T AUDIO.AMP.R
C252 330p 500V B
R251
R250 330k 1/4W
R248 22k
R249 10k
C238 0.1
R252 1 1/2W :RF
D207 1SS119 PROTECT
D208 1SS119 PROTECT
C241 1000 50V
C240 0.22 :PT
R271 1.2k
K
TUNING CONTROL, AUDIO CONTROL, AUDIO OUT

SCHEMATIC DIAGRAM (3)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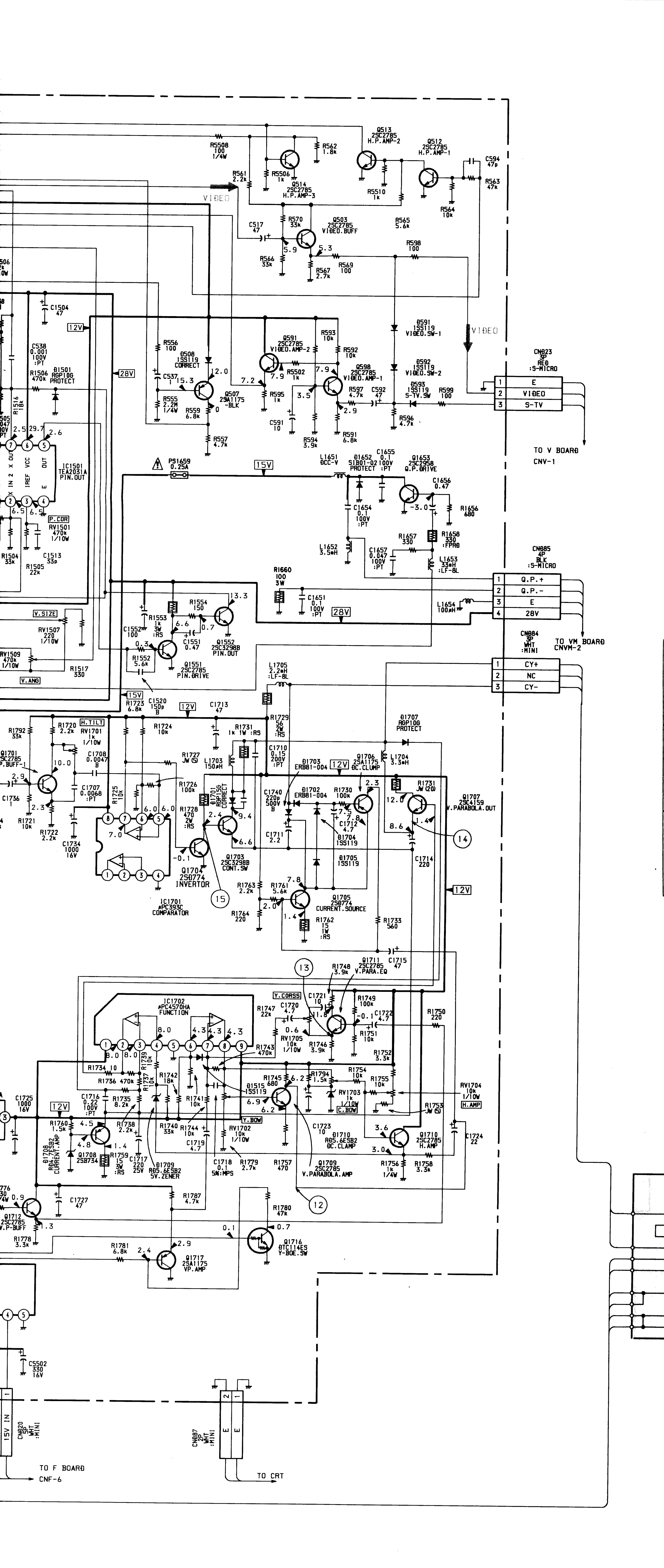
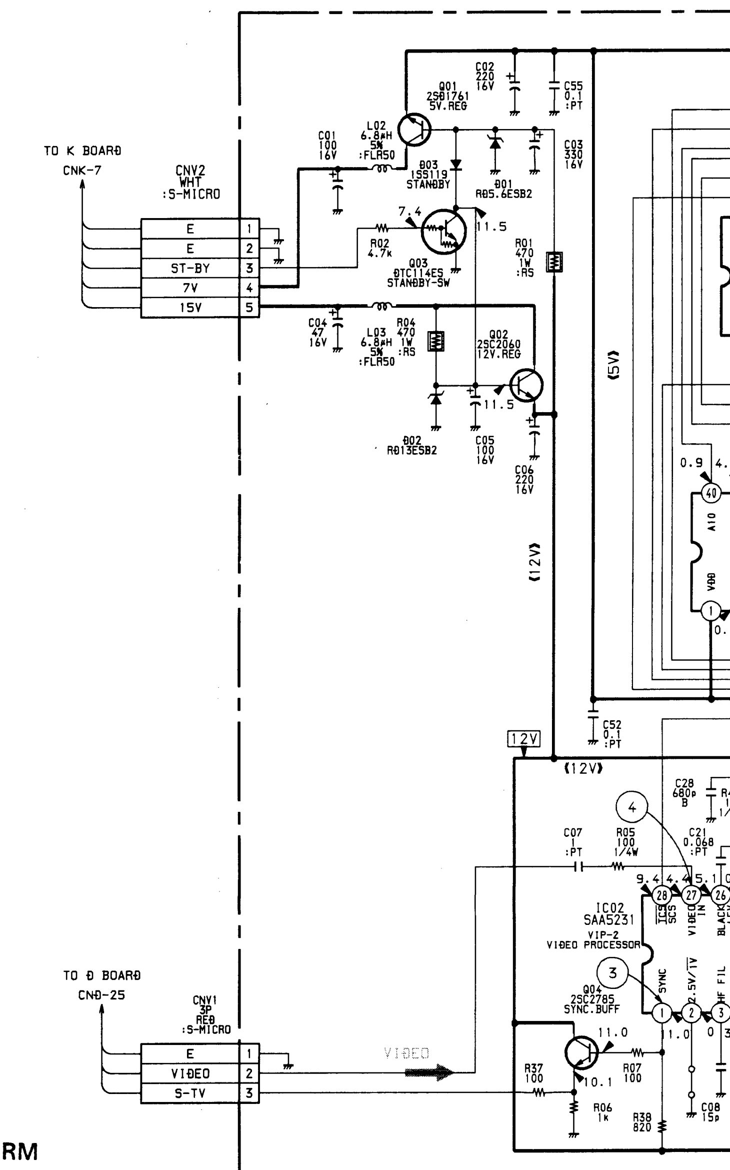
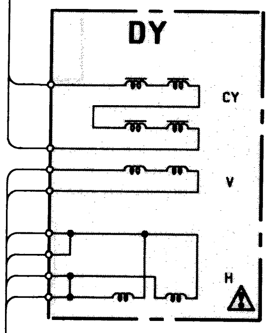
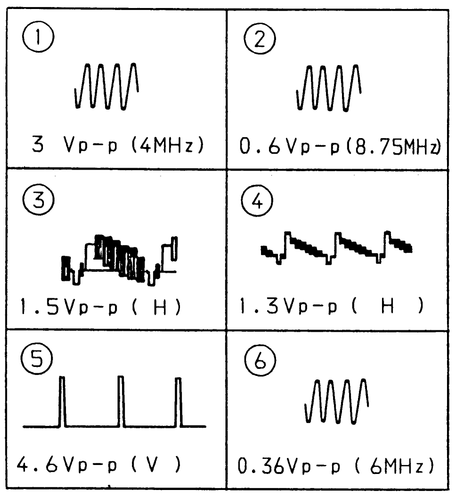
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
TO K BOARD
CNK-3
CN822 12P WHT :S-MICRO
VIDEO IN
E
50/60 OUT
SCP OUT
HAFC IN
+BLK
PIX ABL
BRT ABL
H PULSE
V PULSE
E
NO PIC
VIDEO
12V
IC501 TEA2028B JUNGLE
IC502 TDA8170 V.OUT
IC1501 TEA2031A PIN.OUT
IC1701 μPC393C COMPARATOR
IC1702 μPC4570HA FUNCTION
IC1704 NJM7812FA 12V REG
IC503 STR90120 12V.REG
H-PHASE
H.CENT
V.CENT
CORNER.COR
H.SIZE
PIN AMP
PIN PHASE
P.COR
V.SIZE
V.ANG
H.TILT
H-CENT
28V
15V
135V
200V
T802 NX-1613
T801 H.D.T
T803 B.F.T
T804 HLT
T805 PMT
NL801
TO C BOARD
CNC-81
CN881 3P WHT :S-MICRO
H2
NC
H1
TO CRT
TO C-BOARD
Q592 DTC114ES INVERTOR
Q509 DTC114ES 50/60.LIN.SW
Q510 DTC114ES V.CENT-3
Q502 2SA1175 V.ZOOMING
Q501 2SA1175 50/60-SW
Q505 2SD774 V.CENT-1
Q506 2SB734 V.CENT-2
Q508 1SS119 CORRECT
Q1551 2SC2785 PIN.DRIVE
Q1701 2SC2785 FBP.BUFF-1
Q1704 2SD774 INVERTOR
Q1708 2SB734
Q1712 2SC2785 V.P-BUFF
Q1717 2SA1175 VP.AMP
Q805 2SC2688 H.DRIVE
Q804 2SD1941-07 H.OUT
Q806 2SA1221 +B.DET-1
Q807 2SC2275A +B.DET-2
Q1608 2SC2785 PIC.ABL.OUT
Q1610 2SC2785 ABL.DRIVE
Q1609 2SC2785 BRIGHT.ABL.OUT
Q1611 2SA1175 ABL.FEEDBACK
D
JUNGL, 50/60 SW,
PIN AMP, H·V OUT,
COMPARATOR
CN821 3P WHT :VH
E
E
135V
CN882 3P WHT :MINI
G2
200V
E
H+
H+
H-
H-
V-
V+
CN883 6P WHT :BY
15V IN2
ST.BY
12V OUT
E
15V IN
CN820 5P WHT :MINI
TO F BOARD
CNF-5
TO C BOARD
CNC-82
TO F BOARD
CNF-6
CN887


VIDEO
Q513 2SC2785 H.P.AMP-2
Q512 2SC2785 H.P.AMP-1
Q514 2SC2785 H.P.AMP-3
Q503 2SC2785 VIDEO.BUFF
D591 1SS119 VIDEO.SW-1
D592 1SS119 VIDEO.SW-2
D593 1SS119 S-TV.SW
Q591 2SC2785 VIDEO.AMP-2
Q598 2SC2785 VIDEO.AMP-1
D508 1SS119 CORRECT
Q507 2SA1175 -BLK
D1501 RGP10G PROTECT
IC1501 TEA2031A PIN.OUT
RV1501 470k 1/10W
P.COR
V.SIZE
RV1507 220 1/10W
RV1509 470k 1/10W
V.ANG
CN823 3P RED :S-MICRO
E
VIDEO
S-TV
TO V BOARD CNV-1
PS1659 0.25A
L1651 DCC-V
D1652 S1B01-02 PROTECT
Q1653 2SD2958 Q.P.DRIVE
CN885 4P BLK :S-MICRO
Q.P.+
Q.P.-
E
28V
Q1552 2SC3298B PIN.OUT
Q1551 2SC2785 PIN.DRIVE
CN884 3P WHT :MINI
CY+
NC
CY-
TO VM BOARD CNVM-2
12V
15V
28V
H.TILT
RV1701 1k 1/10W
Q1701 2SC2785 V.P.BUFF-1
IC1701 μPC393C COMPARATOR
Q1704 2SD774 INVERTOR
Q1703 2SC3298B CONT.SW
D1701 RGP10G CORRECT
D1703 ERB81-004
D1702 ERB81-004
D1704 1SS119
D1705 1SS119
Q1706 2SA1175 DC.CLUMP
D1707 RGP10G PROTECT
Q1707 2SC4159 V.PARABOLA.OUT
Q1705 2SD774 CURRENT.SOURCE
Q1711 2SC2785 V.PARA.EQ
IC1702 μPC4570HA FUNCTION
Y.CORSS
RV1705 10k 1/10W
D1515 1SS119
RV1703 1k 1/10W
C.BOW
Y.BOW
RV1702 10k 1/10W
Q1710 2SC2785 H.AMP
RV1704 10k 1/10W
H.AMP
D1710 RD5.6ESB2 DC.CLAMP
Q1709 2SC2785 V.PARABOLA.AMP
Q1708 2SB734
D1709 RD5.6ESB2 5V.ZENER
Q1712 2SC2785 V.P-BUFF
Q1717 2SA1175 VP.AMP
Q1716 DTC114ES Y-BOE.SW
DY
CY
V
H
CN820 15V IN
TO F BOARD CNF-6
CN887 2P WHT :MINI
TO CRT
① ② ③ ④ ⑤ ⑥ ⑫ ⑬ ⑭ ⑮

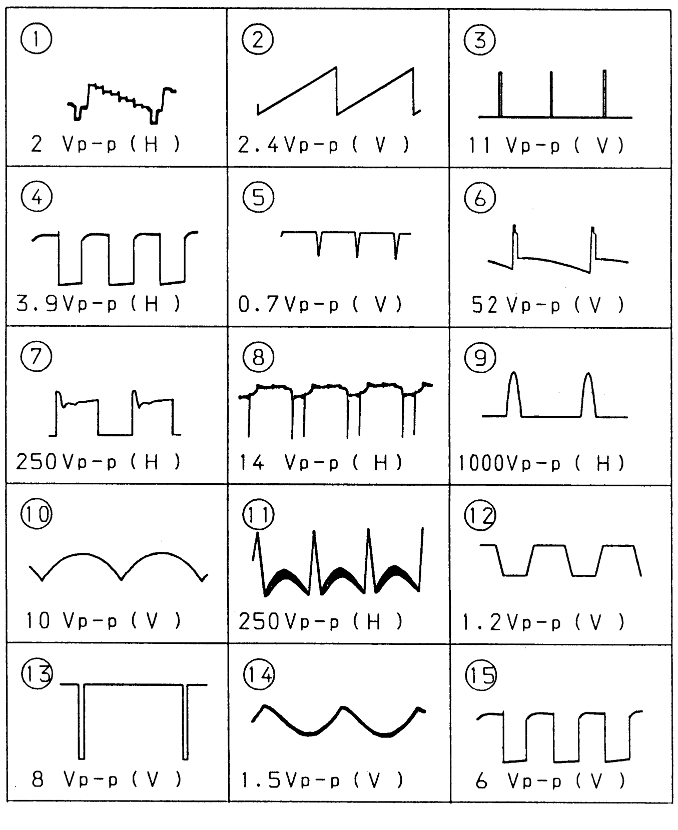

TO K BOARD CNK-7
CNY2 WHT :S-MICRO
E
E
ST-BY
7V
15V
Q01 2SB1761 5V.REG
D03 1SS119 STANBY
D01 RD5.6ESB2
Q03 DTC114ES STANBY-SW
Q02 2SC2060 12V.REG
D02 RD13ESB2
(5V)
(12V)
12V
IC02 SAA5231 VIP-2 VIDEO PROCESSOR
Q04 2SC2785 SYNC.BUFF
TO D BOARD CND-25
CNY1 3P RED :S-MICRO
E
VIDEO
S-TV
VIDEO



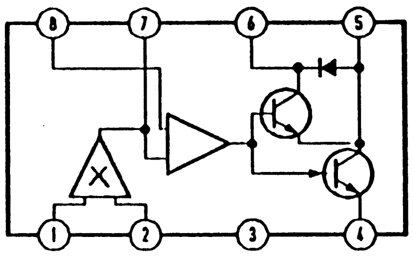
• V BOARD WAVEFORM



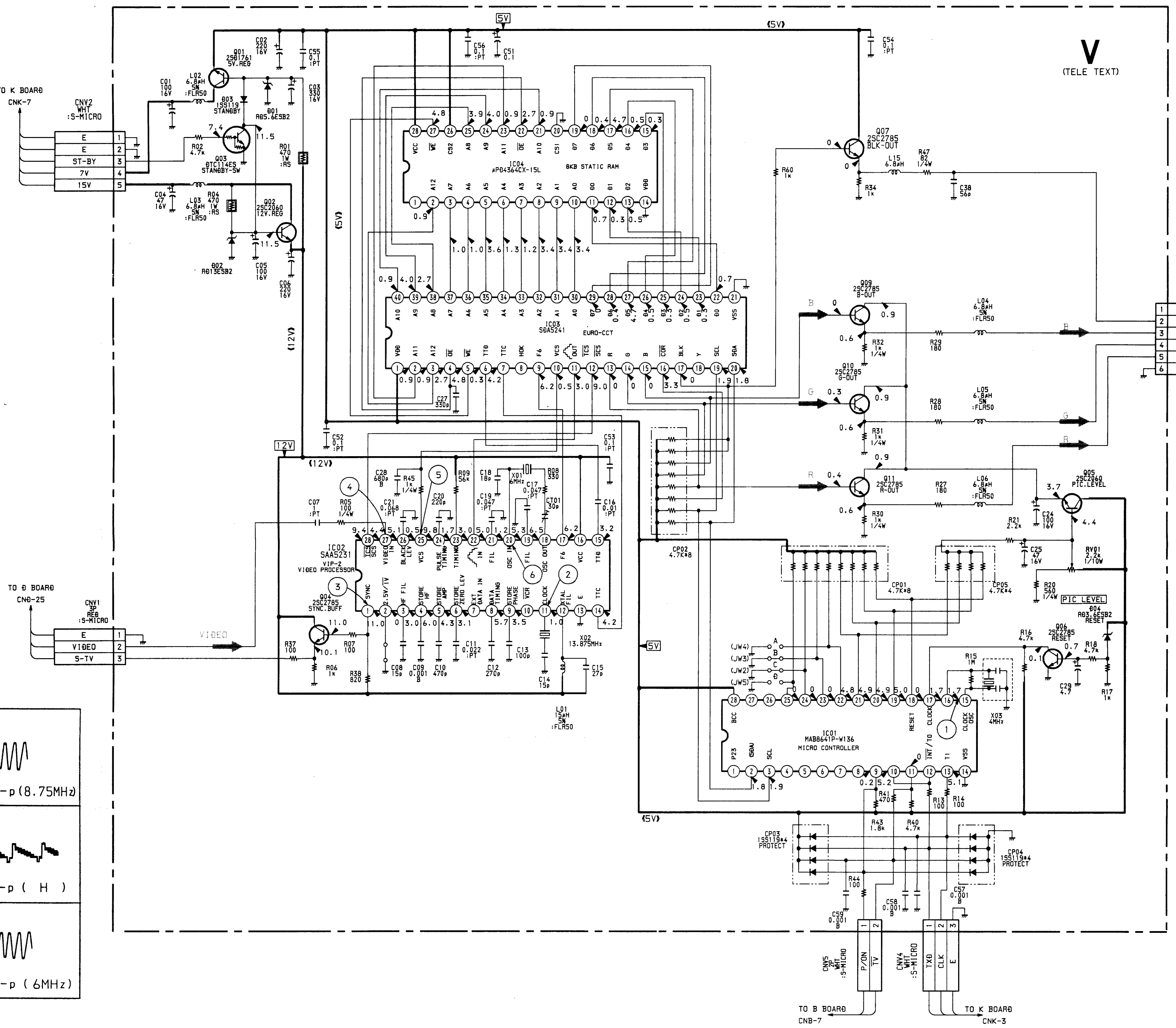
• D BOARD WAVEFORM



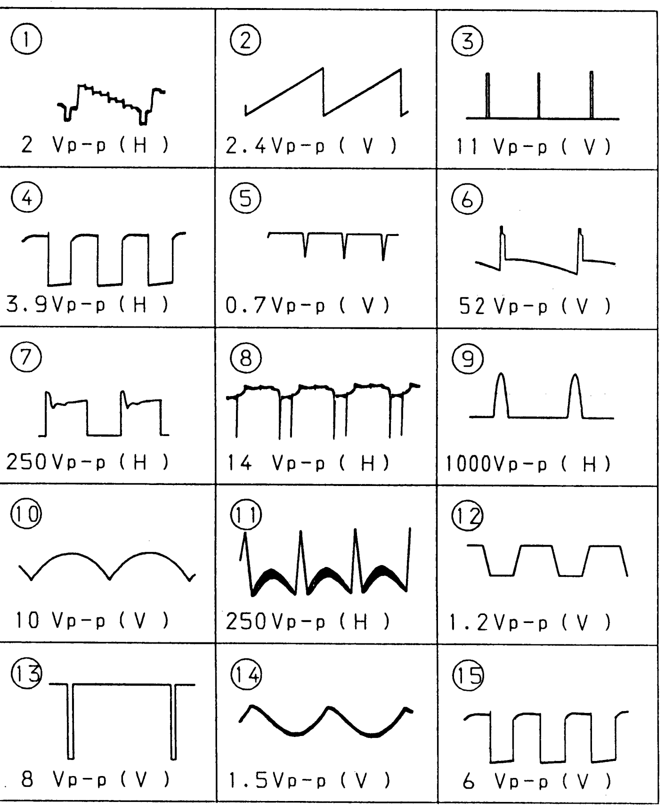
• D BOARD IC1501 TEA2031A



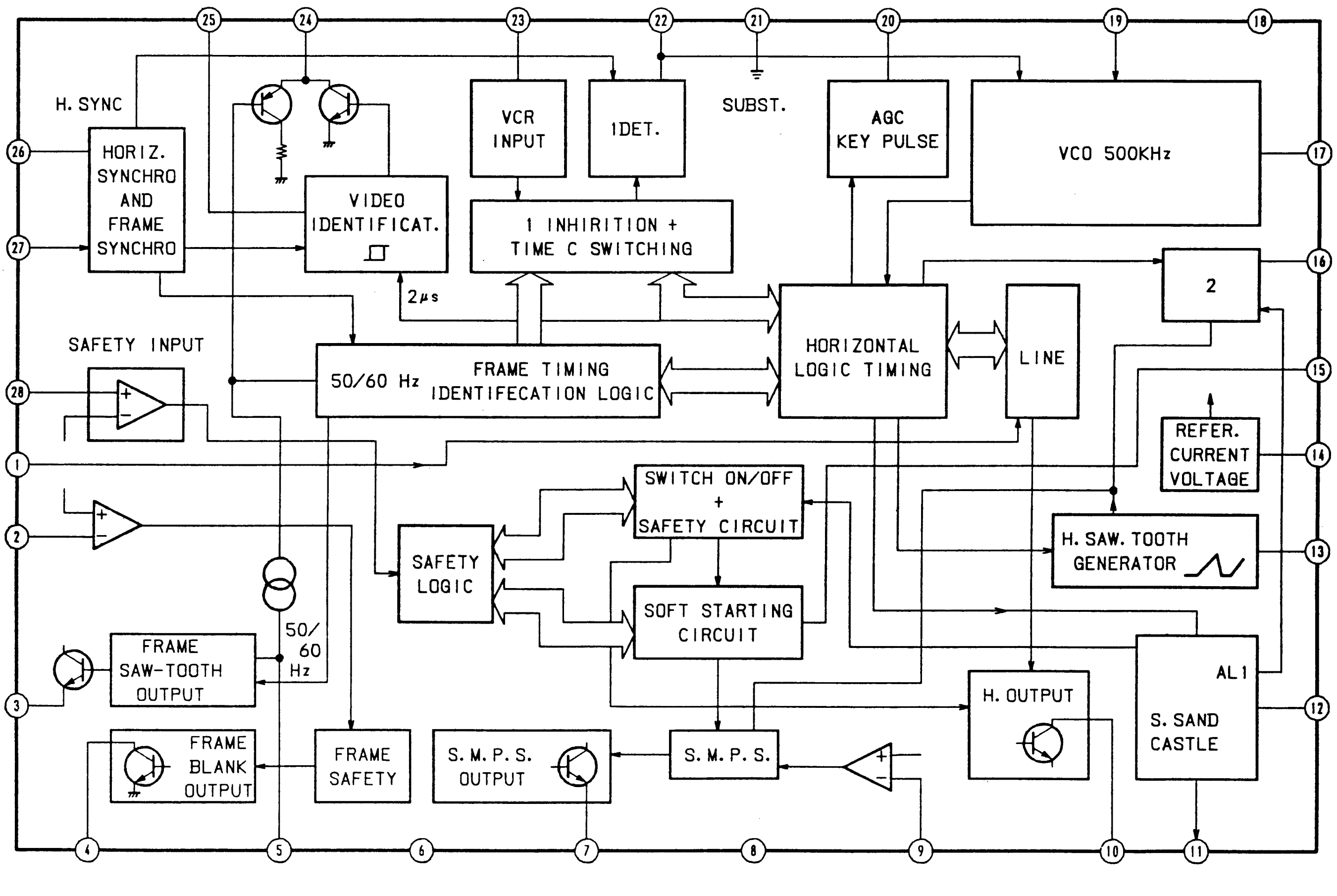
18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29


V
(TELE TEXT)
5V
(5V)
(12V)
12V
TO K BOARD CNK-7
CNV2 WHT :S-MICRO
E
E
ST-BY
7V
15V
Q01 2SB1761 5V.REG
Q02 2SC2060 12V.REG
Q03 DTC114ES STANDBY-SW
D03 1SS119 STANDBY
D01 RD5.6ESB2
D02 RD13ESB2
L02 6.8µH 5N :FLR50
L03 6.8µH 5N :FLR50
IC04 µPD4364CX-15L 8KB STATIC RAM
IC03 SDA5241 EURO-CCT
IC02 SAA5231 VIP-2 VIDEO PROCESSOR
Q04 2SC2785 SYNC.BUFF
IC01 MAB8641P-W136 MICRO CONTROLLER
Q07 2SC2785 BLK-OUT
Q09 2SC2785 B-OUT
Q10 2SC2785 G-OUT
Q11 2SC2785 R-OUT
Q05 2SC2060 PIC.LEVEL
Q06 2SC2785 RESET
D04 RD3.6ESB2 RESET
PIC LEVEL
RV01 2.2k 1/10W
X01 6MHz
X02 13.875MHz
X03 4MHz
CP01 4.7K*8
CP02 4.7K*8
CP05 4.7K*4
CP03 1SS119*4 PROTECT
CP04 1SS119*4 PROTECT
TO B BOARD CNB-25
CNV1 3P RED :S-MICRO
E
VIDEO
S-TV
VIDEO
CNV3 6P RED :S-MICRO
NC
BLK
B OUT
G OUT
R OUT
E
TO B BOARD CNB-8
CNV5 2P WHT :S-MICRO
P/ON
TV
CNV4 WHT :S-MICRO
TXD
CLK
E
TO B BOARD CNB-7
TO K BOARD CNK-3
(JW4)
(JW3)
(JW2)
(JW5)
L01 15µH 5N :FLR50
-p(8.75MHz)
-p (H)
-p (6MHz)

• D BOARD WAVEFORM


①
2 Vp-p (H)
②
2.4Vp-p (V)
③
11 Vp-p (V)
④
3.9Vp-p (H)
⑤
0.7Vp-p (V)
⑥
52 Vp-p (V)
⑦
250Vp-p (H)
⑧
14 Vp-p (H)
⑨
1000Vp-p (H)
⑩
10 Vp-p (V)
⑪
250Vp-p (H)
⑫
1.2Vp-p (V)
⑬
8 Vp-p (V)
⑭
1.5Vp-p (V)
⑮
6 Vp-p (V)

• D BOARD IC501 TEA2028B


H. SYNC
HORIZ. SYNCHRO AND FRAME SYNCHRO
VIDEO IDENTIFICAT.
VCR INPUT
IDET.
SUBST.
AGC KEY PULSE
VCO 500KHz
1 INHIRITION + TIME C SWITCHING
2µs
SAFETY INPUT
50/60 Hz
FRAME TIMING IDENTIFECATION LOGIC
HORIZONTAL LOGIC TIMING
LINE
2
REFER. CURRENT VOLTAGE
SWITCH ON/OFF + SAFETY CIRCUIT
SAFETY LOGIC
H. SAW. TOOTH GENERATOR
SOFT STARTING CIRCUIT
50/ 60 Hz
FRAME SAW-TOOTH OUTPUT
H. OUTPUT
AL1
S. SAND CASTLE
FRAME BLANK OUTPUT
FRAME SAFETY
S. M. P. S. OUTPUT
S. M. P. S.
①
②
③
④
⑤
⑥
⑦
⑧
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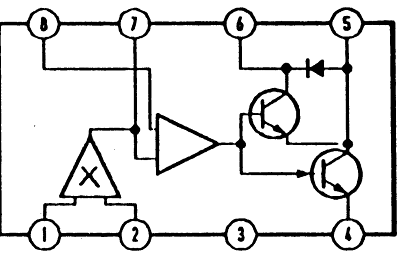
• D BOARD IC1501 TEA2031A



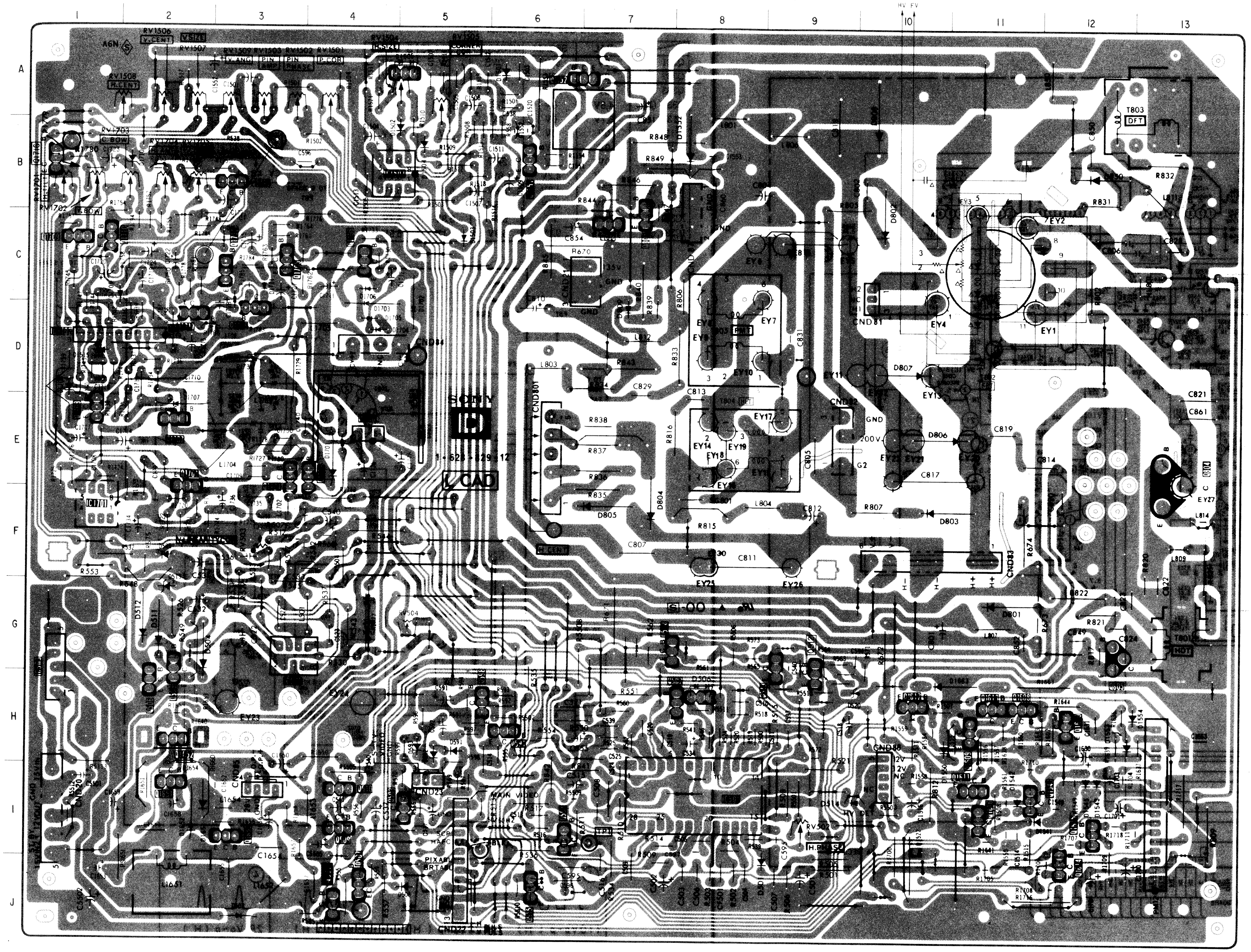
KV-D3411D
RM-684/SS-XT291

PRINTED WIRING BOARD (3)

–CONDUCTOR SIDE–
–D BOARD–

[JUNGL, 50/60 SW, PIN AMP, H・V OUT, COMPARATOR] **D**

D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A
B
C
D
E
F
G
H
I
J
HV FV
RV1506 V.CENT
V.SIZE
RV1507
RV1508 P.CENT
RV1509 H.ANG
RV1503 PIN
RV1502 PIN PHASE
RV1501 P.COR
RV1504 H.SIZE
RV1505 CORNER
RV1703 C.BOW
RV1702 K.BOW
T803 DFT
SONY
L CAD
1-629-129-12
CND801
CND81
CND82
CND83
EY1
EY2
EY4
EY7
EY11
EY17
EY18
EY19
EY25
EY26
EY27
GND
200V
35V
G2
R.CENT
T801 HOT
H.PHASE
MAIN VIDEO
RV502
D806
D807
D803
D804
D805
C811
C807
C817
C819
C821
C861
R807
R815
R816
R837
R838
R833
R839
R806
R831
R832
R848
R849
R844
L803
L804
C813
C829
IC1701
IC1501

IC	
IC501	I–8
IC502	G–3
IC503	G–1
IC1501	B–4
IC1701	F–1
IC1702	D–1
IC1704	E–4

TRANSISTOR	
Q501	I–6
Q502	H–8
Q503	G–5
Q505	G–2
Q506	H–2
Q507	J–4
Q509	I–4
Q510	I–4
Q512	G–9
Q513	G–3
Q514	G–8
Q591	H–6
Q592	J–4
Q598	H–5
Q804	E–13
Q805	G–12
Q806	C–7
Q807	C–7
Q1551	B–6
Q1552	A–6
Q1608	H–11
Q1609	H–11
Q1610	H–12
Q1613	H–11
Q1653	I–3
Q1701	E–2
Q1703	E–4
Q1704	E–3
Q1705	C–3
Q1706	C–4
Q1707	E–2
Q1708	E–1
Q1709	C–1
Q1710	C–1
Q1711	B–3
Q1712	C–3
Q1716	B–1
Q1717	D–2

DIODE	
D501	I–9
D502	J–3
D504	G–2
D506	H–8
D508	J–5
D511	G–2
D512	G–2
D513	G–2
D591	H–5
D592	H–5
D593	H–5
D801	G–11
D802	C–10
D803	F–10
D804	F–7
D805	F–7
D806	E–11
D807	D–10
D808	B–10
D809	D–7
D850	B–12
D1501	A–6
D1502	B–5
D1503	B–5
D1504	B–5
D1505	A–5
D1515	D–1
D1550	H–11
D1552	B–8
D1553	H–12
D1652	I–2
D1701	E–4
D1702	D–5
D1703	D–4
D1704	D–4
D1705	D–4
D1706	C–4
D1707	E–2
D1708	D–1
D1709	C–1
D1710	B–2

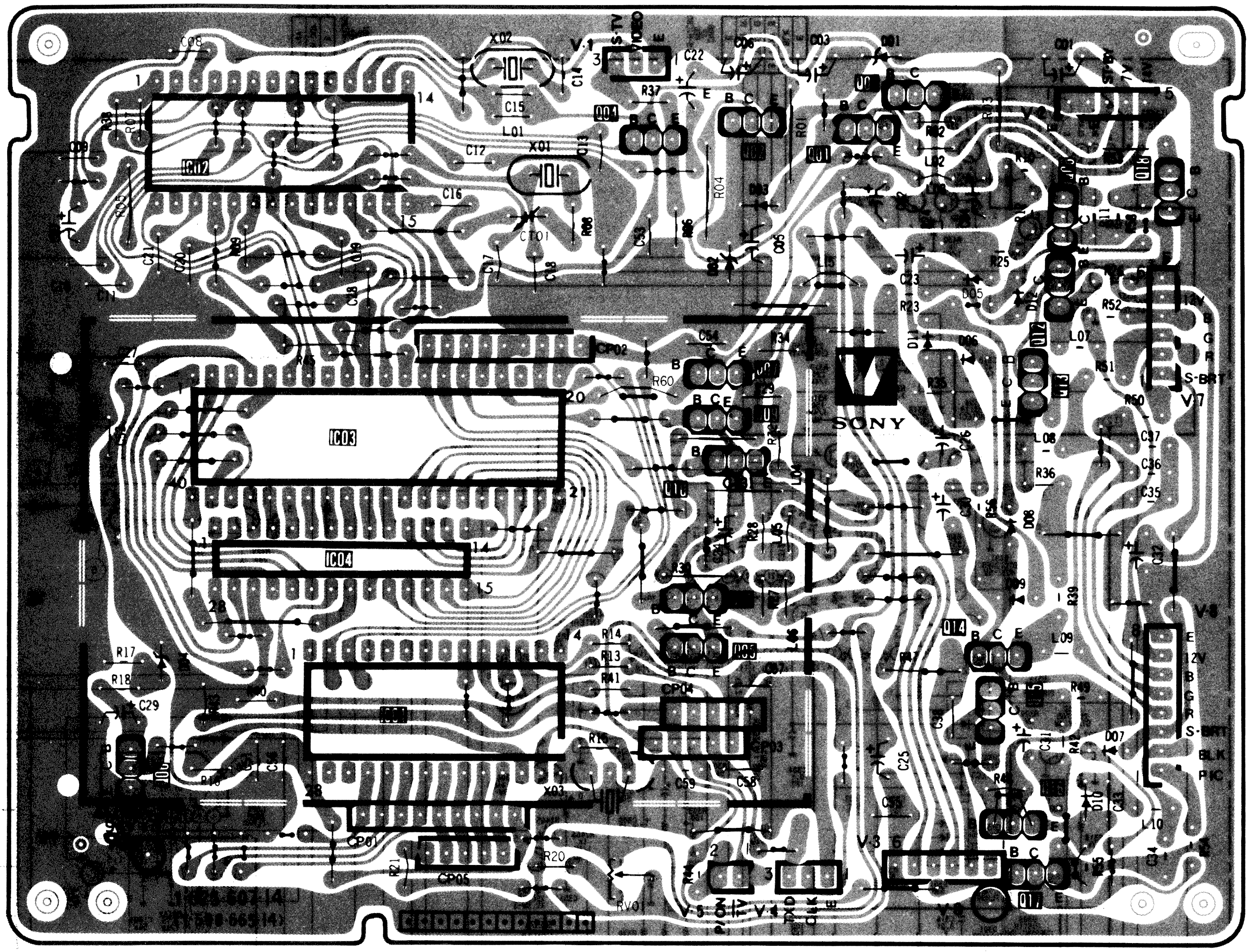
VARIABLE RESISTOR	
RV502	I–9
RV1501	A–4
RV1502	A–3
RV1503	A–3
RV1504	A–5
RV1505	A–5
RV1506	A–2
RV1507	A–2
RV1508	A–2
RV1509	A–3
RV1701	B–1
RV1702	B–1
RV1703	B–2
RV1704	B–2
RV1705	B–2

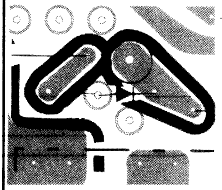
KV-D3411D
RM-684/S8-XT291

[TELE TEXT] **V**

D511	G-2
D512	G-2
D513	G-2
D591	H-5
D592	H-5
D593	H-5
D801	G-11
D802	C-10
D803	F-10
D804	F-7
D805	F-7
D806	E-11
D807	D-10
D808	B-10
D809	D-7
D850	B-12
D1501	A-6
D1502	B-5
D1503	B-5
D1504	B-5
D1505	A-5
D1515	D-1
D1550	H-11
D1552	B-8
D1553	H-12
D1652	I-2
D1701	E-4
D1702	D-5
D1703	D-4
D1704	D-4
D1705	D-4
D1706	C-4
D1707	E-2
D1708	D-1
D1709	C-1
D1710	B-2
VARIABLE RESISTOR	
RV502	I-9
RV1501	A-4
RV1502	A-3
RV1503	A-3
RV1504	A-5
RV1505	A-5
RV1506	A-2
RV1507	A-2
RV1508	A-2
RV1509	A-3
RV1701	B-1
RV1702	B-1
RV1703	B-2
RV1704	B-2
RV1705	B-2

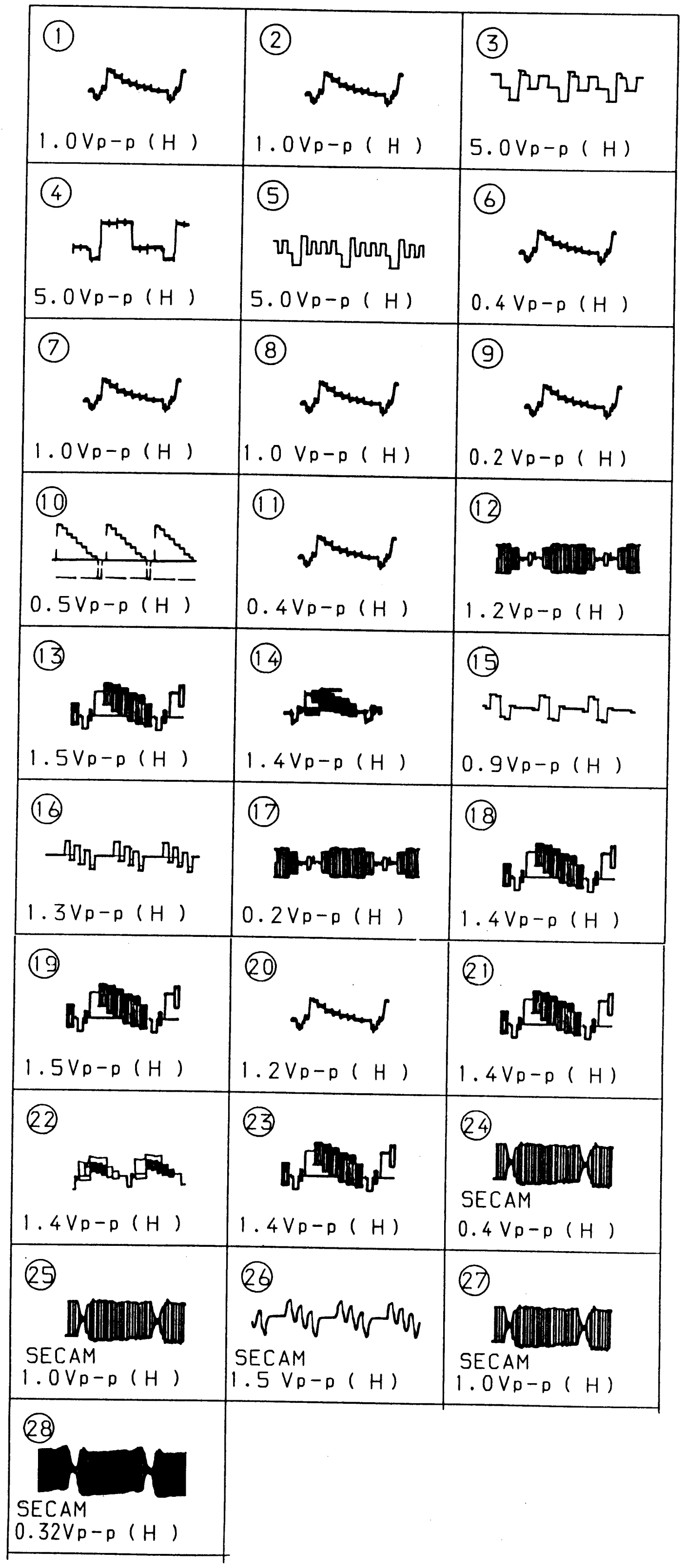
-V BOARD-

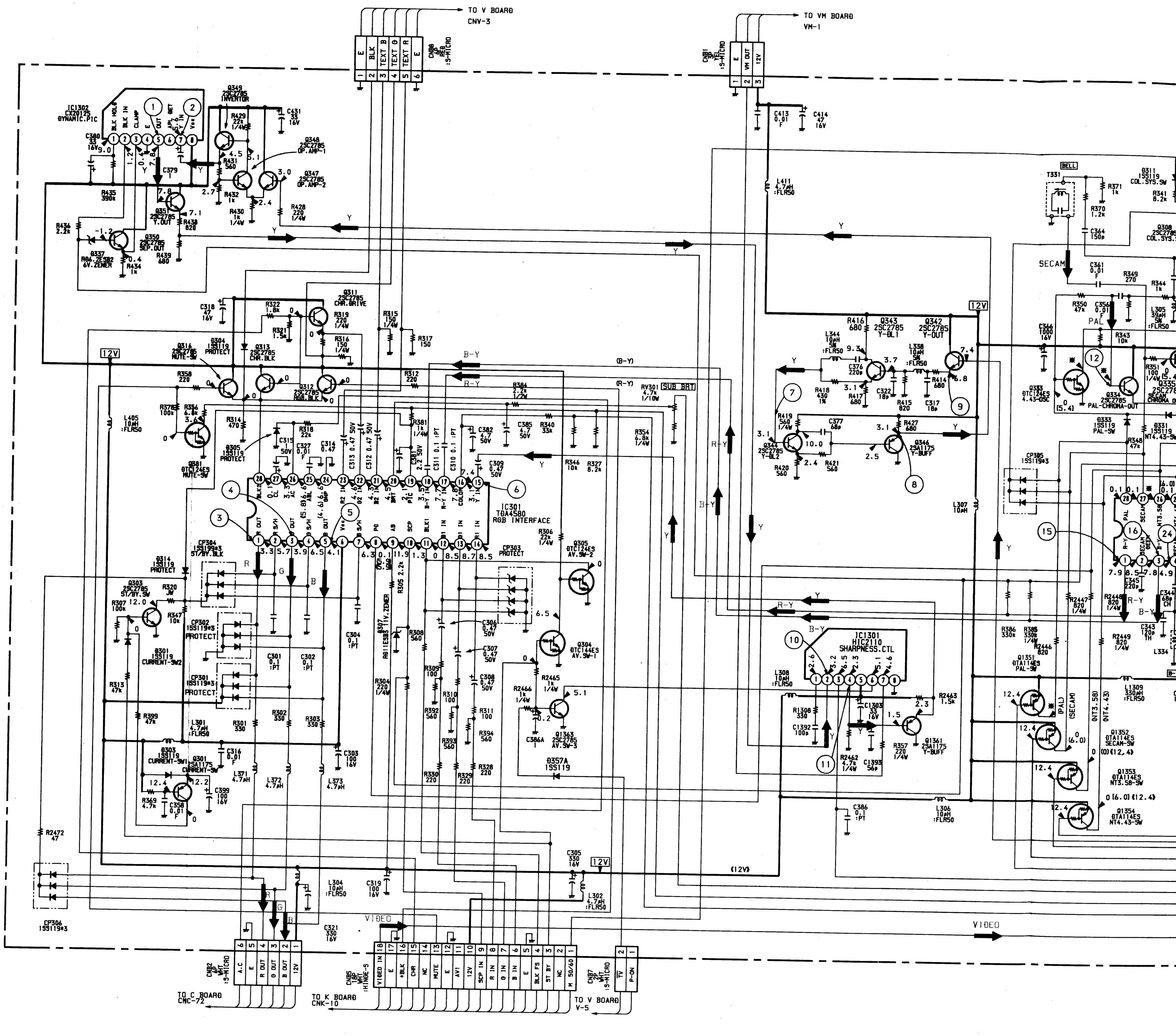

IC01
IC02
IC03
IC04
X01
X02
X03
CT01
L01
L07
L08
L09
L10
C12
C15
C16
C22
C29
CP01
CP02
CP04
CP05
RV01
R17
R18
R20
R37
R60
SONY
V1
V3
V5
V7
V8
12V
B
G
R
S-BRT
BLK
PIC
1-659-607-14



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• B BOARD WAVEFORM

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A
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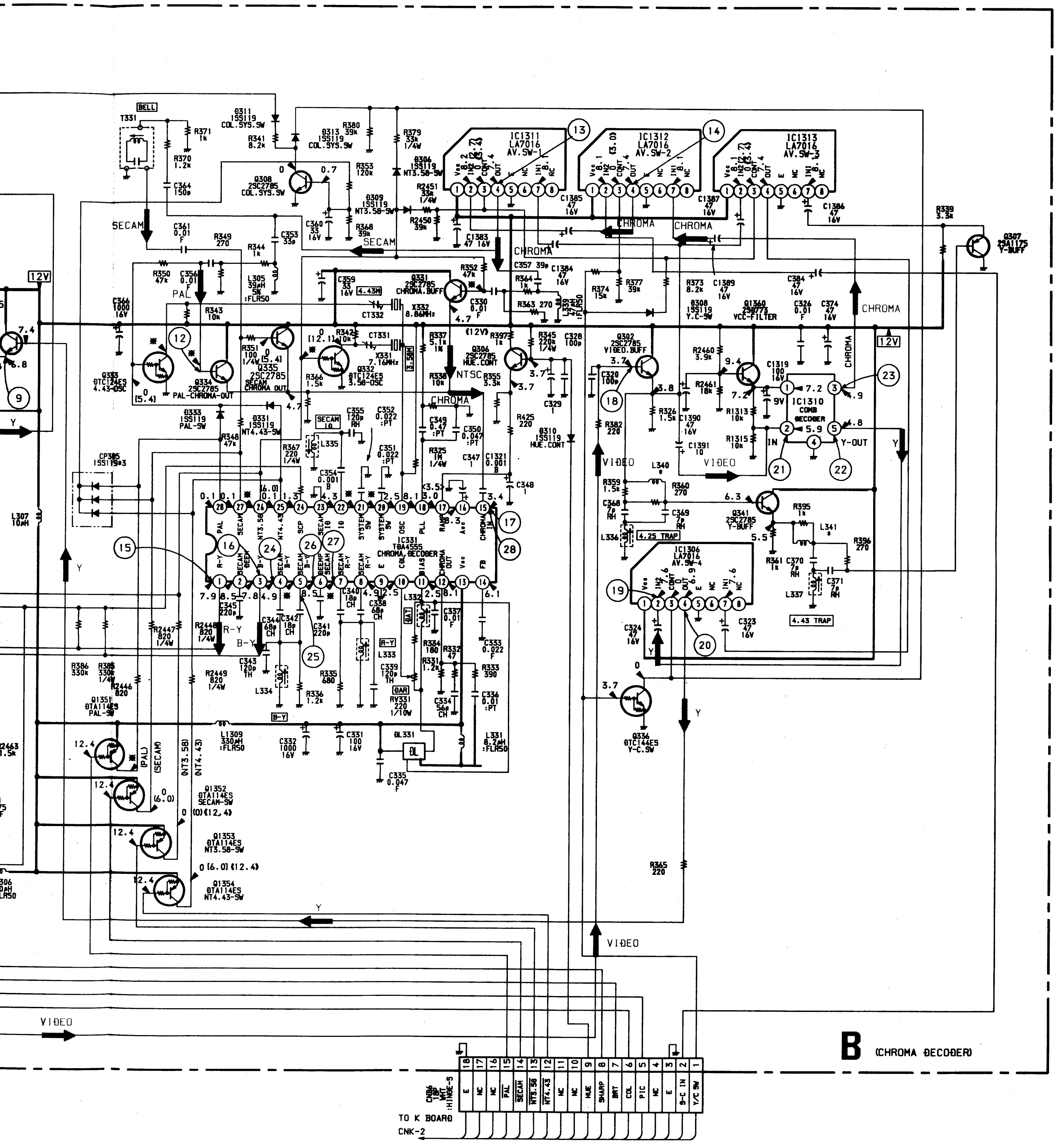
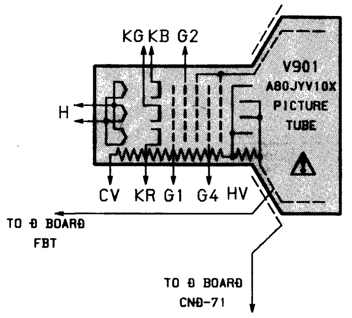
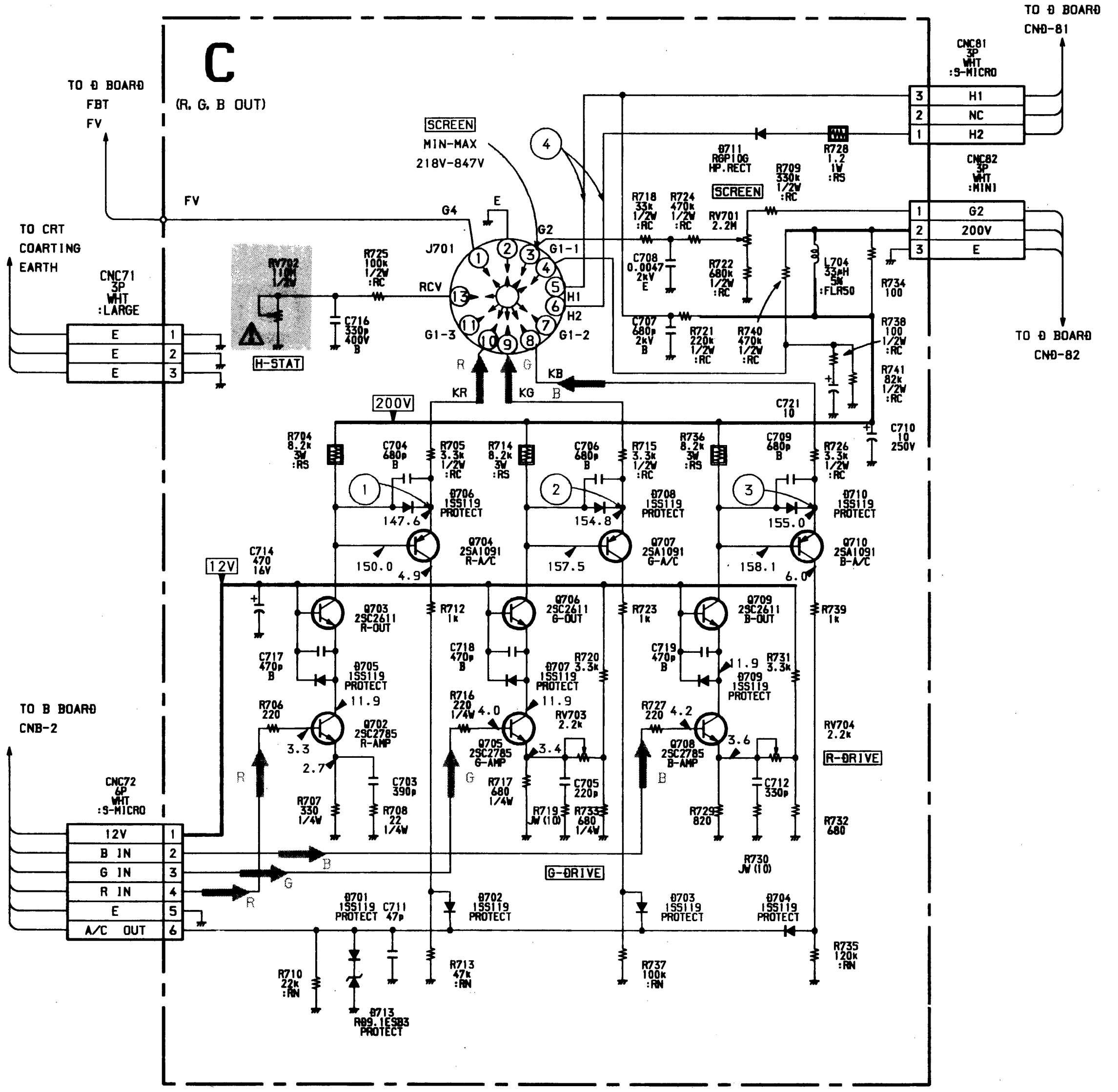
G
H
I
J
TO V BOARD CNV-3
CN88 E BLK TEXT B TEXT G TEXT R E
TO VM BOARD VM-1
CN81 E VM OUT 12V
IC1302 CX20125 DYNAMIC.PIC
Q349 2SC2785 INVERTOR
Q348 2SC2785 OP.AMP-1
Q347 2SC2785 OP.AMP-2
Q351 2SC2785 Y.OUT
Q350 2SC2785 SEP.OUT
D337 RD6.2ESB2 6V.ZENER
Q311 2SC2785 CHR.DRIVE
Q316 2SC2785 MUTE-SW
D304 1SS119 PROTECT
Q313 2SC2785 CHR.BLK
Q312 2SC2785 RGB.BLK
D305 1SS119 PROTECT
Q381 DTC124ES MUTE-SW
L405 10µH :FLR50
IC301 TDA4580 RGB INTERFACE
CP304 1SS119×3 ST/BY.BLK
D314 1SS119 PROTECT
Q303 2SC2785 ST/BY.SW
CP302 1SS119×3 PROTECT
D301 1SS119 CURRENT-SW2
CP301 1SS119×3 PROTECT
D303 1SS119 CURRENT-SW1
Q301 2SA1175 CURRENT-SW
CP303 PROTECT
Q305 DTC144ES AV.SW-2
Q304 DTC144ES AV.SW-1
Q1363 2SC2785 AV.SW-3
D357A 1SS119
D307 RD11ESB3 11V.ZENER
RV301 SUB BRT
CP306 1SS119×3
CN82 TO C BOARD CMC-72
A.C E R OUT G OUT B OUT 12V
CN85 TO K BOARD CNK-10
VIDEO IN E BLK CHR NC MUTE E AV1 12V SCP IN R IN G IN B IN E BLK FS ST BY NC N 50/60
CN87 TO V BOARD V-5
TV P-ON
12V
VIDEO
R-Y
B-Y
Y
R
G
B
L411 4.7µH :FLR50
Q343 2SC2785 Y-BL1
Q342 2SC2785 Y-OUT
Q344 2SC2785 Y-DL2
Q346 2SA1175 Y-BUFF
L344 10µH :FLR50
L338 10µH :FLR50
L307 10µH
IC1301 HIC2110 SHARPNESS.CTL
L308 10µH :FLR50
Q1361 2SA1175 Y-BUFF
L306 10µH :FLR50
BELL
T331
SECAM
PAL
D311 1SS119 COL.SYS.SW
Q308 2SC2785 COL.SYS.
Q333 DTC124ES 4.43-OSC
Q334 2SC2785 PAL-CHROMA-OUT
D333 1SS119 PAL-SW
Q331 1SS119 NT4.43-SW
CP305 1SS119×3
Q1351 DTA114ES PAL-SW
Q1352 DTA114ES SECAM-SW
Q1353 DTA114ES NT3.58-SW
Q1354 DTA114ES NT4.43-SW
L1309 330µH :FLR50
(PAL) (SECAM) (NT3.58) (NT4.43)


B (CHROMA DECODER)
IC1311 LA7016 AV.SW-1
IC1312 LA7016 AV.SW-2
IC1313 LA7016 AV.SW-3
IC1306 LA7016 AV.SW-4
IC331 TDA4555 CHROMA DECODER
IC1310 COMB DECODER
Q307 2SA1175 Y-BUFF
Q308 2SC2785 COL.SYS.SW
Q331 2SC2785 CHROMA.BUFF
Q332 DTC124ES 3.58-OSC
Q333 DTC124ES 4.43-OSC
Q334 2SC2785 PAL-CHROMA-OUT
Q335 2SC2785 SECAM CHROMA OUT
Q302 2SC2785 VIDEO.BUFF
Q306 2SC2785 HUE.CONT
Q336 DTC144ES Y-C.SW
Q341 2SC2785 Y-BUFF
Q1351 DTA114ES PAL-SW
Q1352 DTA114ES SECAM-SW
Q1353 DTA114ES NT3.58-SW
Q1354 DTA114ES NT4.43-SW
Q1360 2SB773 VCC-FILTER
X331 7.16MHz
X332 8.86MHz
4.25 TRAP
4.43 TRAP
BELL
SECAM
PAL
NTSC
CHROMA
VIDEO
Y
12V
TO K BOARD CNK-2
E
NC
NC
PAL
SECAM
NT3.58
NT4.43
NC
HUE
SHARP
BRT
COL
PIC
NC
E
S-C IN
Y/C SW

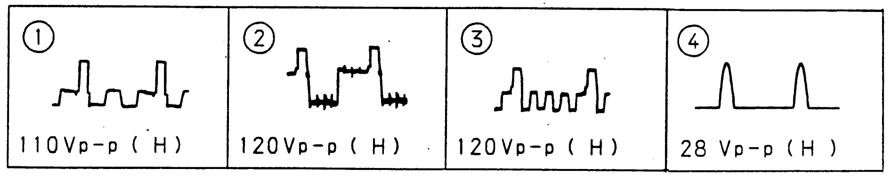
As to the voltage volue shown by the mark ※ on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43	S VIDEO
Q331 (B)	0V	5.4V	0V	0V	5.3V
Q332 (B)	0V	0V	5.9V	0V	5.9V
Q333 (C)	5V	12.4V	12.3V	0V	12.4V
Q334 (B)	4.6V	0V	0V	4.9V	0V
Q1351 (C)	5.7V	0V	0V	0V	0V
IC1311 ③	0V	0V	2.7V	0V	3.4V
IC1312 ③	0V	0V	0V	0V	3V
IC1313 ③	0V	0V	2.7V	0V	3.4V
IC331 ⑤	6.4V	4.2V	6V	5.7V	5.7V
IC331 ⑦	6.3V	4.2V	5.8V	5.4V	5.4V
IC331 ⑳	5.8V	5.8V	7.6V	7.7V	3.4V
IC331 ㉑	8.1V	7V	5.7V	5.8V	5.7V
IC331 ㉘	−0.1V	0.1V	5.9V	0.1V	5.9V


KG KB G2
H
V901
A80JYV10X
PICTURE TUBE
CV KR G1 G4 HV
TO D BOARD FBT
TO D BOARD CND-71


C
(R, G, B OUT)
TO D BOARD FBT FV
TO CRT COARTING EARTH
CNC71 3P WHT :LARGE
SCREEN
MIN-MAX 218V-847V
J701
H-STAT
200V
12V
TO B BOARD CNB-2
CNC72 6P WHT :S-MICRO
12V
B IN
G IN
R IN
E
A/C OUT
TO B BOARD CNB-81
TO B BOARD CNB-82
H1
NC
H2
G2
200V
E
Q703 2SC2611 R-OUT
Q706 2SC2611 G-OUT
Q709 2SC2611 B-OUT
Q702 2SC2785 R-AMP
Q705 2SC2785 G-AMP
Q708 2SC2785 B-AMP
Q704 2SA1091 R-A/C
Q707 2SA1091 G-A/C
Q710 2SA1091 B-A/C
R-DRIVE
G-DRIVE
147.6
154.8
155.0
150.0
157.5
158.1

• C BOARD WAVEFORM



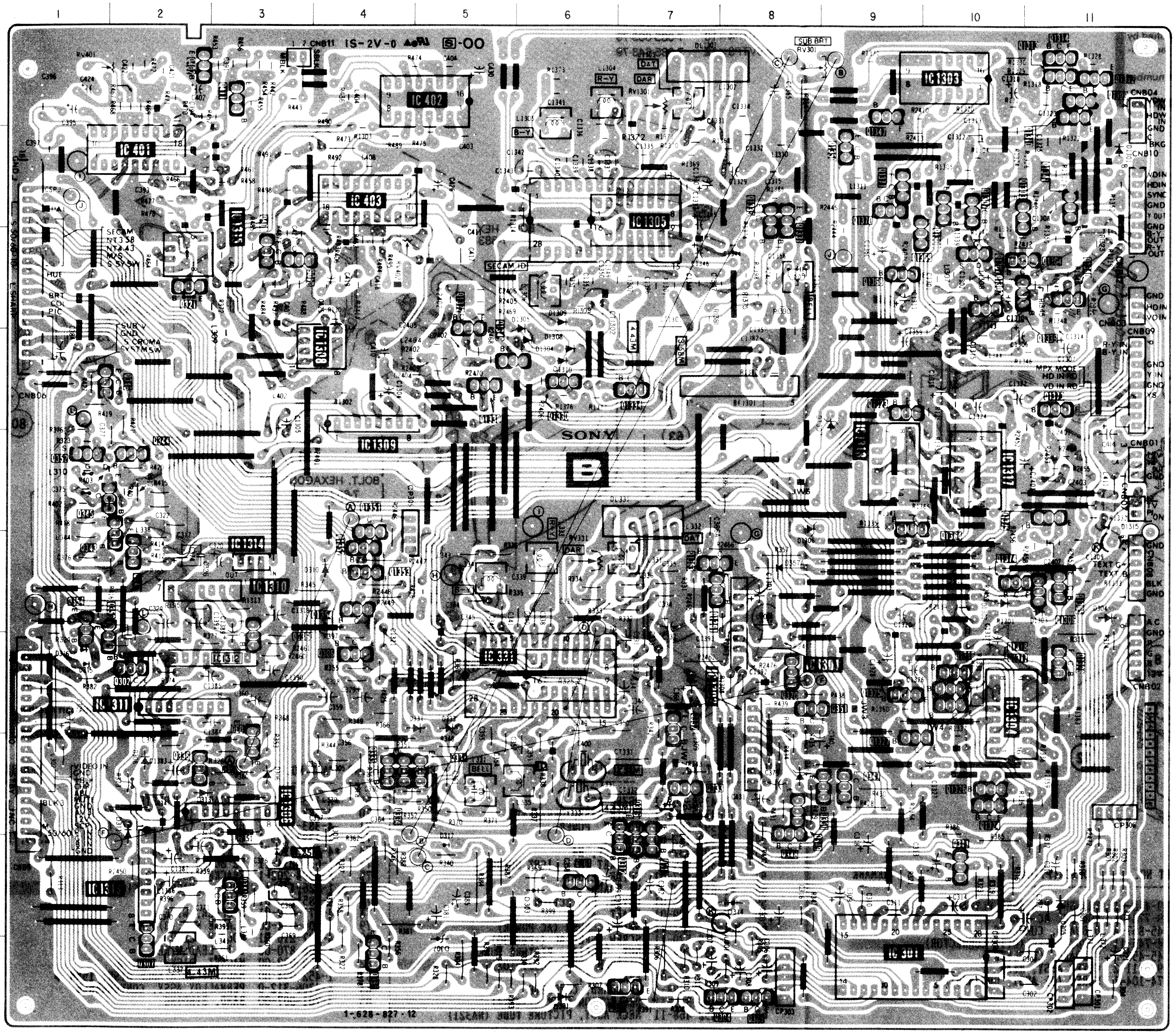
PRINTED WIRING BOARD (4)

–CONDUCTOR SIDE–

–B BOARD–

[R. G. B INTERFACE, AV SW, CHROMA DECODER, SHARPNESS CONTROL] **B**

B


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
IC401
IC402
IC403
IC1305
IC1303
IC1309
IC1306
IC1301
IC1310
IC1311
IC1312
IC1313
IC331
IC301
SUB BRT
RV301
RV331
SECAM ID
SONY
B
BOLT HEXAGON
CNB11
CNB04
CNB10
CNB09
CNB01
CNB08
CNB02
CNB06
1-628-827-12

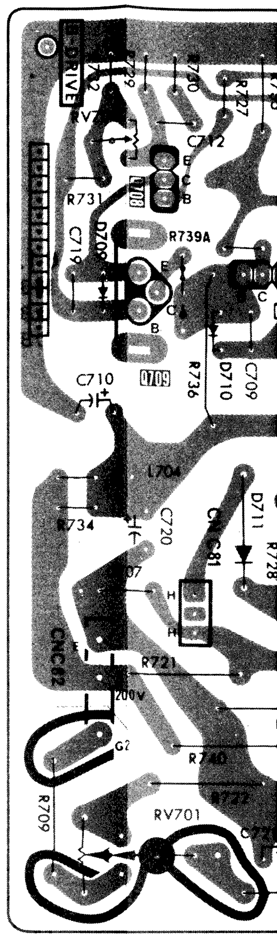
IC	
IC301	J-9
IC331	G-5
IC1301	G-8
IC1302	H-8
IC1306	H-3
IC1310	F-3
IC1311	G-2
IC1312	F-1
IC1313	I-2

TRANSISTOR	
Q301	I-6
Q302	G-2
Q303	J-6
Q304	J-7
Q305	J-8
Q306	G-4
Q307	J-2
Q308	G-3
Q311	I-10
Q312	I-6
Q313	I-7
Q316	H-7
Q320	G-8
Q331	H-5
Q332	G-7
Q333	H-7
Q334	H-4
Q335	H-4
Q336	H-2
Q341	I-3
Q342	F-2
Q343	F-1
Q344	E-2
Q346	D-1
Q347	H-9
Q348	H-8
Q349	H-8
Q350	H-8
Q351	G-8
Q381	J-4
Q1351	F-4
Q1352	F-4
Q1353	F-4
Q1354	F-4
Q1360	G-3
Q1361	F-7
Q1363	F-7

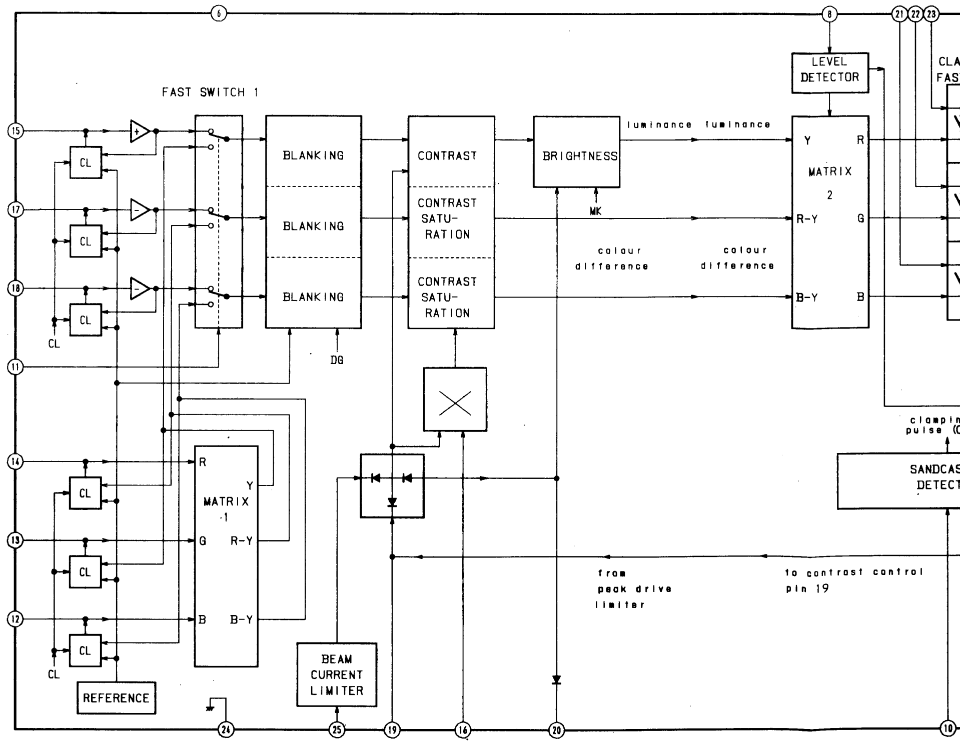
DIODE	
D301	J-6
D303	I-6
D304	F-11
D305	I-11
D306	H-3
D307	I-8
D308	H-2
D309	I-3
D310	F-4
D311	H-2
D313	H-2
D314	I-8
D331	G-4
D333	G-5
D337	H-8
D357A	F-8

VARIABLE RESISTOR	
RV301	A-8
RV331	F-6

–C BOARD–

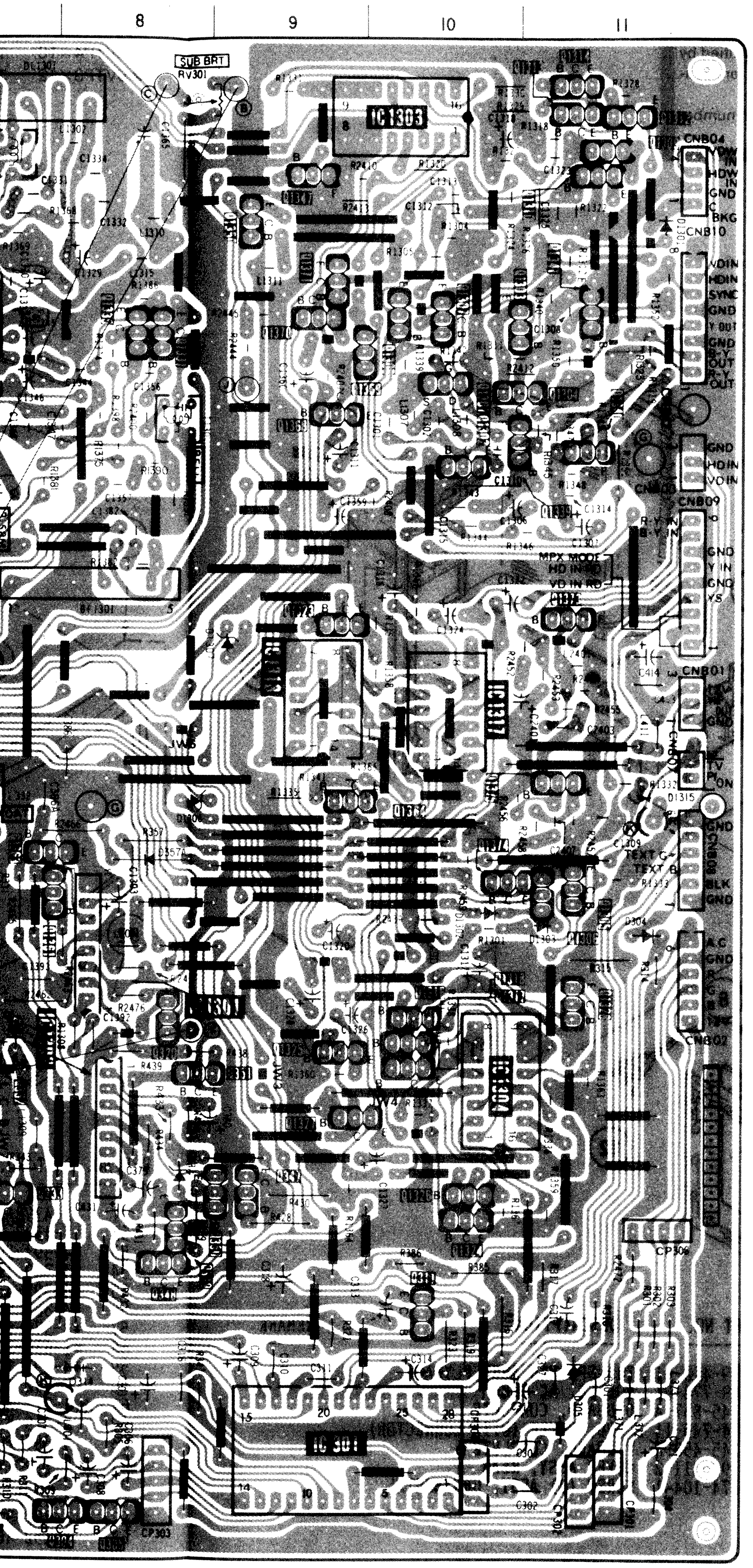

R731
R739A
C710
D709
R736
D710
L704
R734
C720
D711
R721
200V
G2
R740
R709
RV701

• B BOARD IC301 TDA4580


FAST SWITCH 1
CL
BLANKING
BLANKING
BLANKING
CONTRAST
CONTRAST SATU-RATION
CONTRAST SATU-RATION
BRIGHTNESS
LEVEL DETECTOR
luminance
luminance
MATRIX 2
R-Y
B-Y
colour difference
colour difference
MATRIX -1
R
G
B
Y
R-Y
B-Y
REFERENCE
BEAM CURRENT LIMITER
DG
MK
from peak drive limiter
to contrast control pin 19
clamping pulse
SANDCASTLE DETECTOR

TROL] **B**

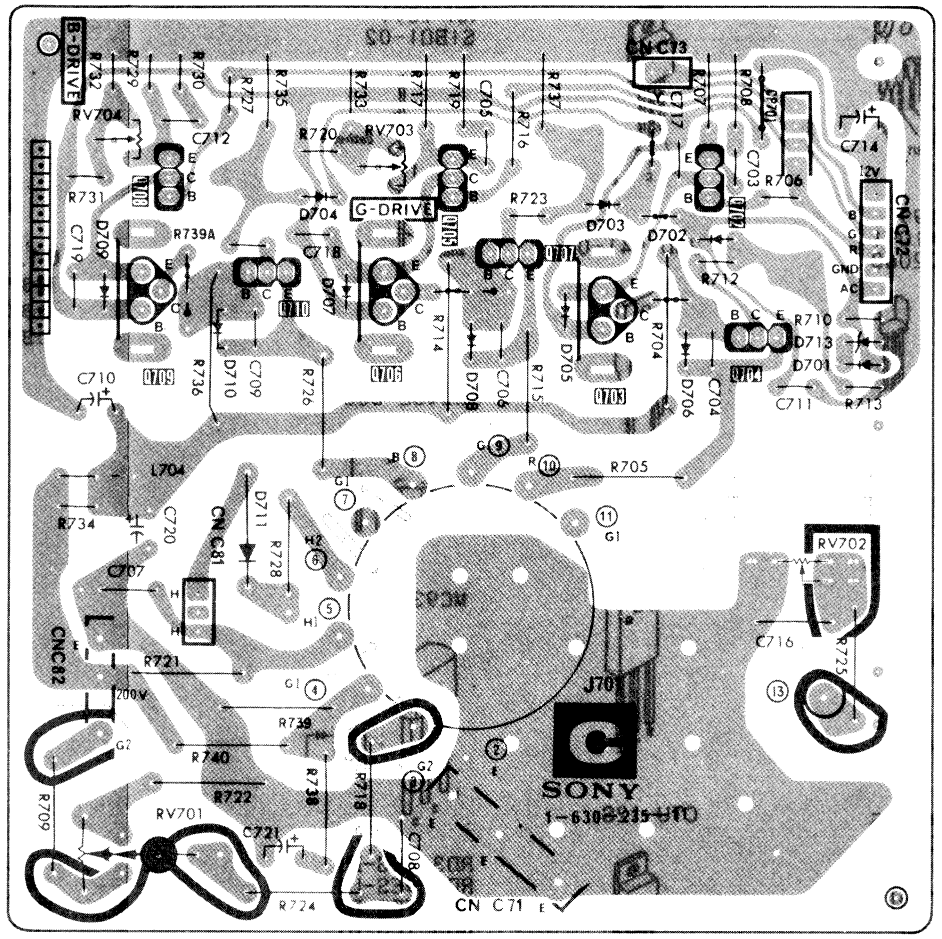
B


8
9
10
11
SUB BRT
RV301
IC1303
IC1301
CNB04
CNB10
CNB09
CNB01
CNB02
CNB06
MPX MODE
HD IN RD
VD IN RD
R-Y IN
B-Y IN
TEXT G
TEXT B
BLK
GND
IC301
IC331
CP303
CP306

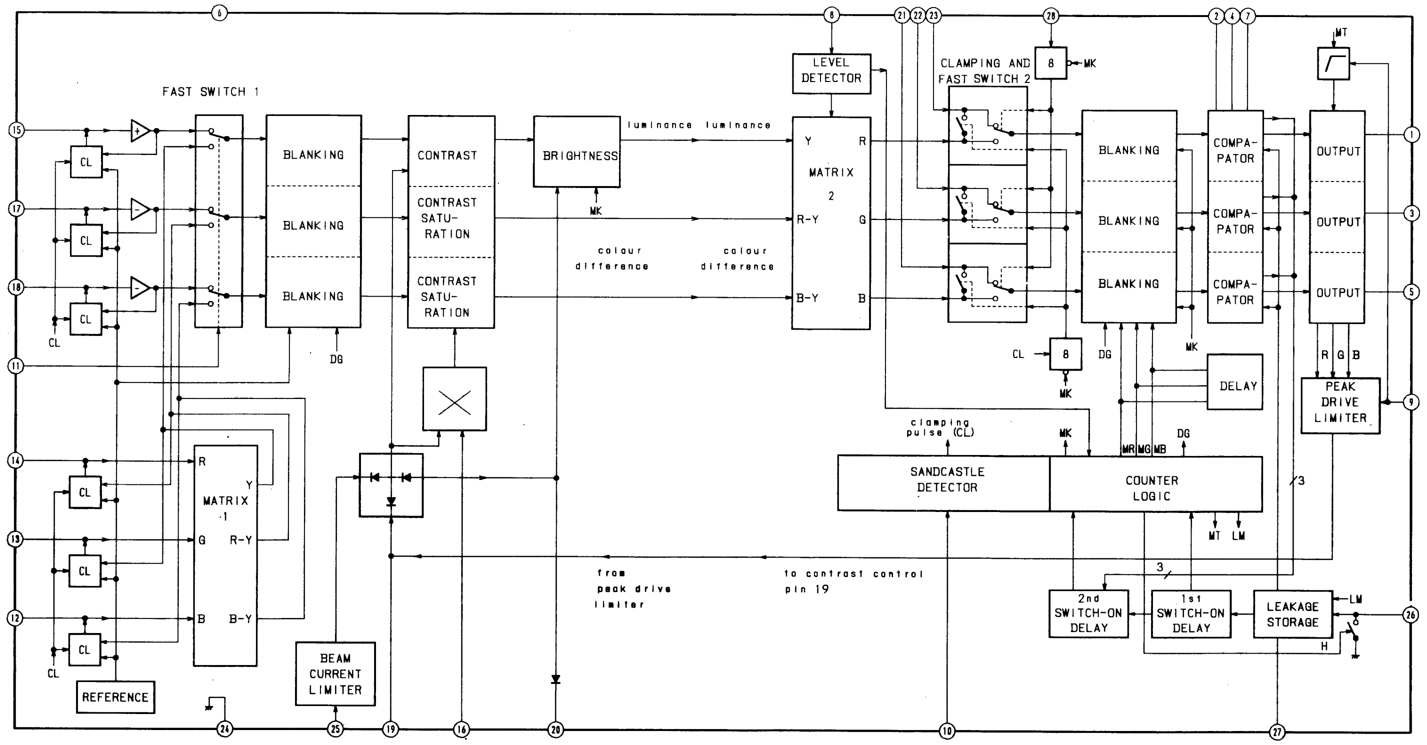
IC	
IC301	J-9
IC331	G-5
IC1301	G-8
IC1302	H-8
IC1306	H-3
IC1310	F-3
IC1311	G-2
IC1312	F-1
IC1313	I-2
TRANSISTOR	
Q301	I-6
Q302	G-2
Q303	J-6
Q304	J-7
Q305	J-8
Q306	G-4
Q307	J-2
Q308	G-3
Q311	I-10
Q312	I-6
Q313	I-7
Q316	H-7
Q320	G-8
Q331	H-5
Q332	G-7
Q333	H-7
Q334	H-4
Q335	H-4
Q336	H-2
Q341	I-3
Q342	F-2
Q343	F-1
Q344	E-2
Q346	D-1
Q347	H-9
Q348	H-8
Q349	H-8
Q350	H-8
Q351	G-8
Q381	J-4
Q1351	F-4
Q1352	F-4
Q1353	F-4
Q1354	F-4
Q1360	G-3
Q1361	F-7
Q1363	F-7
DIODE	
D301	J-6
D303	I-6
D304	F-11
D305	I-11
D306	H-3
D307	I-8
D308	H-2
D309	I-3
D310	F-4
D311	H-2
D313	H-2
D314	I-8
D331	G-4
D333	G-5
D337	H-8
D357A	F-8
VARIABLE RESISTOR	
RV301	A-8
RV331	F-6

[R. G. B OUT] **C**

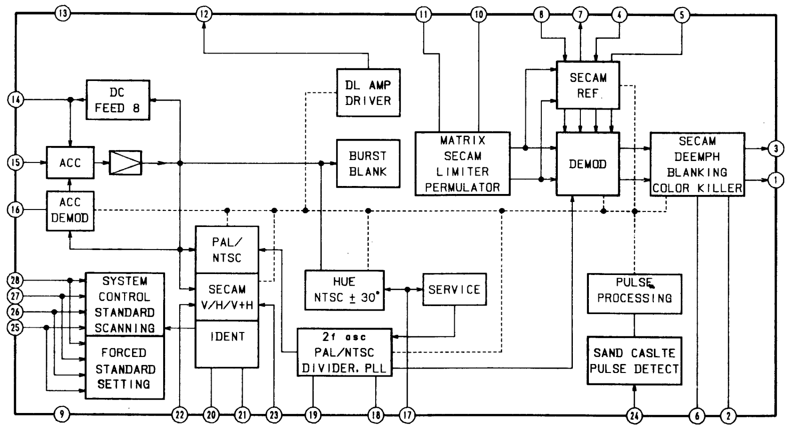
-C BOARD-


B-DRIVE
G-DRIVE
CN C73
CNC82
CN C81
CNC62
CN C71
RV704
RV703
RV701
RV702
J701
12V
200V
SONY
C

• B BOARD IC301 TDA4580

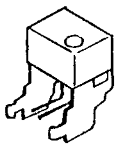

FAST SWITCH 1
CL
BLANKING
CONTRAST
CONTRAST SATU-RATION
BRIGHTNESS
luminance
colour difference
LEVEL DETECTOR
CLAMPING AND FAST SWITCH 2
MATRIX 2
COMPA-PATOR
OUTPUT
PEAK DRIVE LIMITER
DELAY
MATRIX 1
REFERENCE
BEAM CURRENT LIMITER
SANDCASTLE DETECTOR
COUNTER LOGIC
clamping pulse (CL)
from peak drive limiter
to contrast control pin 19
2nd SWITCH-ON DELAY
1st SWITCH-ON DELAY
LEAKAGE STORAGE
MK
DG
LM

• B BOARD IC331 TDA4555

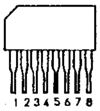

DC FEED B
ACC
ACC DEMOD
DL AMP DRIVER
BURST BLANK
MATRIX SECAM LIMITER PERMULATOR
SECAM REF
DEMOD
SECAM DEEMPH BLANKING COLOR KILLER
PAL/NTSC
SECAM V/H/V+H
IDENT
HUE NTSC ± 30°
SERVICE
2f osc PAL/NTSC DIVIDER, PLL
SYSTEM CONTROL STANDARD SCANNING
FORCED STANDARD SETTING
PULSE PROCESSING
SAND CASLTE PULSE DETECT

5-5. SEMICONDUCTORS

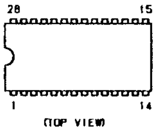
BX-1398



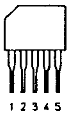
CX20125
LA7016



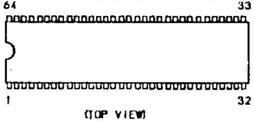
CXA1114P
MAB8641P-W136
SAA5231
TDA4555
TDA4580
TDA6200
TEA2028B
µPD4364CX-15L


28
15
1
14
(TOP VIEW)

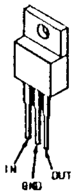
LM1875T



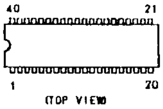
M37100M8-714SP


64
33
1
32
(TOP VIEW)

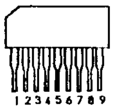
NJM7812FA
µPC78M05H



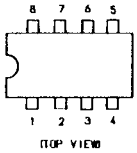
SAA5234E


40
21
1
20
(TOP VIEW)

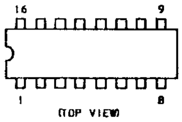
STR-S5941
µPC4570HA



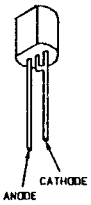
TBA129
TEA2014A
TEA2031A
µPC393C


8 7 6 5
1 2 3 4
(TOP VIEW)

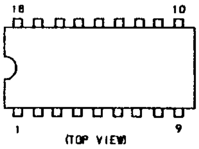
TC4052BP


16
9
1
8
(TOP VIEW)

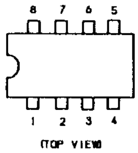
µPC574J


CATHODE
ANODE

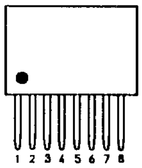
SAB3036


18
10
1
9
(TOP VIEW)

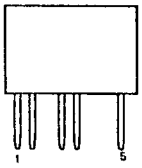
PCD8582


8 7 6 5
1 2 3 4
(TOP VIEW)

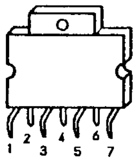
HIC2110



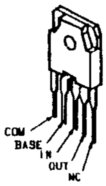
HCF0050A



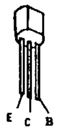
TDA8170



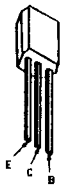
STR90120


COM
BASE
IN
OUT
NC

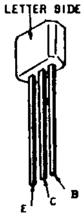
BF199
2SA1091
2SC2060



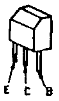
DTA114ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



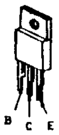
2SA1175
2SC2785


LETTER SIDE
E C B

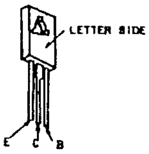
2SA1221
2SB734
2SC2958-K
2SD773
2SC4159
2SD774



2SC2275
2SC3317



2SC2611
2SC2688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E C B

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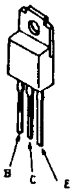

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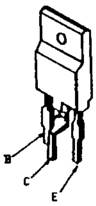

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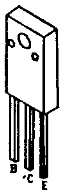

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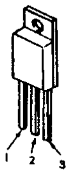

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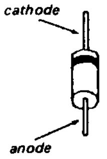
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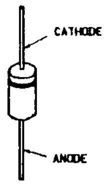
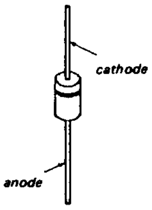
anode

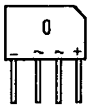
EU2Z
GP08D
RGP01-17
RGP10G
RGP15G
RGP15J
RU4Z-K2


CATHODE
ANODE

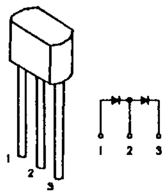
ERB81-004
ERC06-15S
ED38-06
RH-1CV1
SIB01-02


cathode
anode

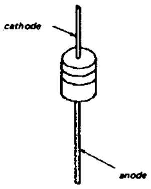
KBU4JL-6088



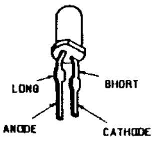
MC931



RD3.6ES-B1
RD3.9ES-L1
RD4.7ES-B2
RD5.1ES-B1
RD5.6ES-B2
RD6.2ES-B3
RD9.1ES-B3
RD11ES-B3
RD13ES-B2
1SS119


cathode
anode

TLR124
LD201VR


LONG
SHORT
ANODE
CATHODE

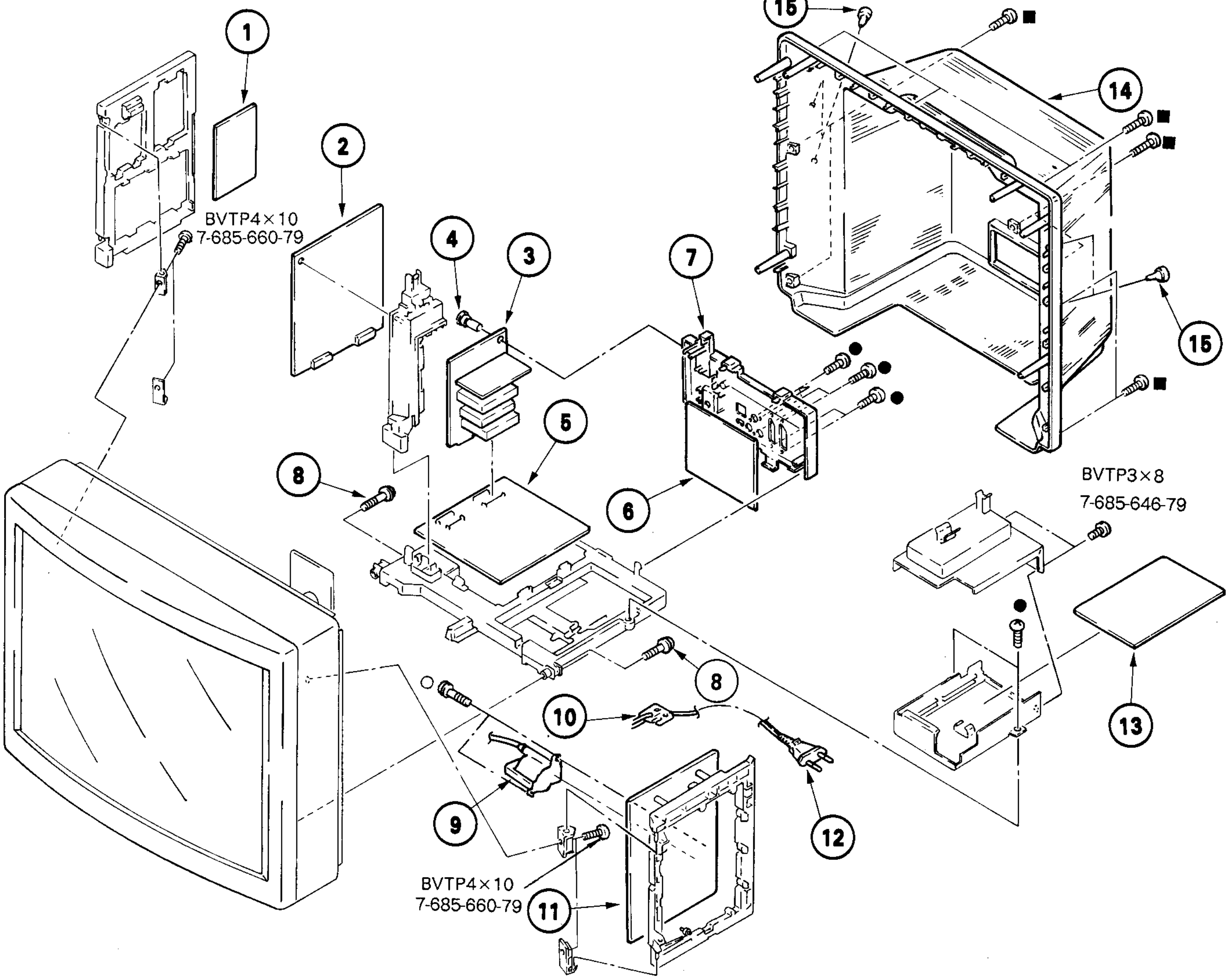
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. PICTURE TUBE

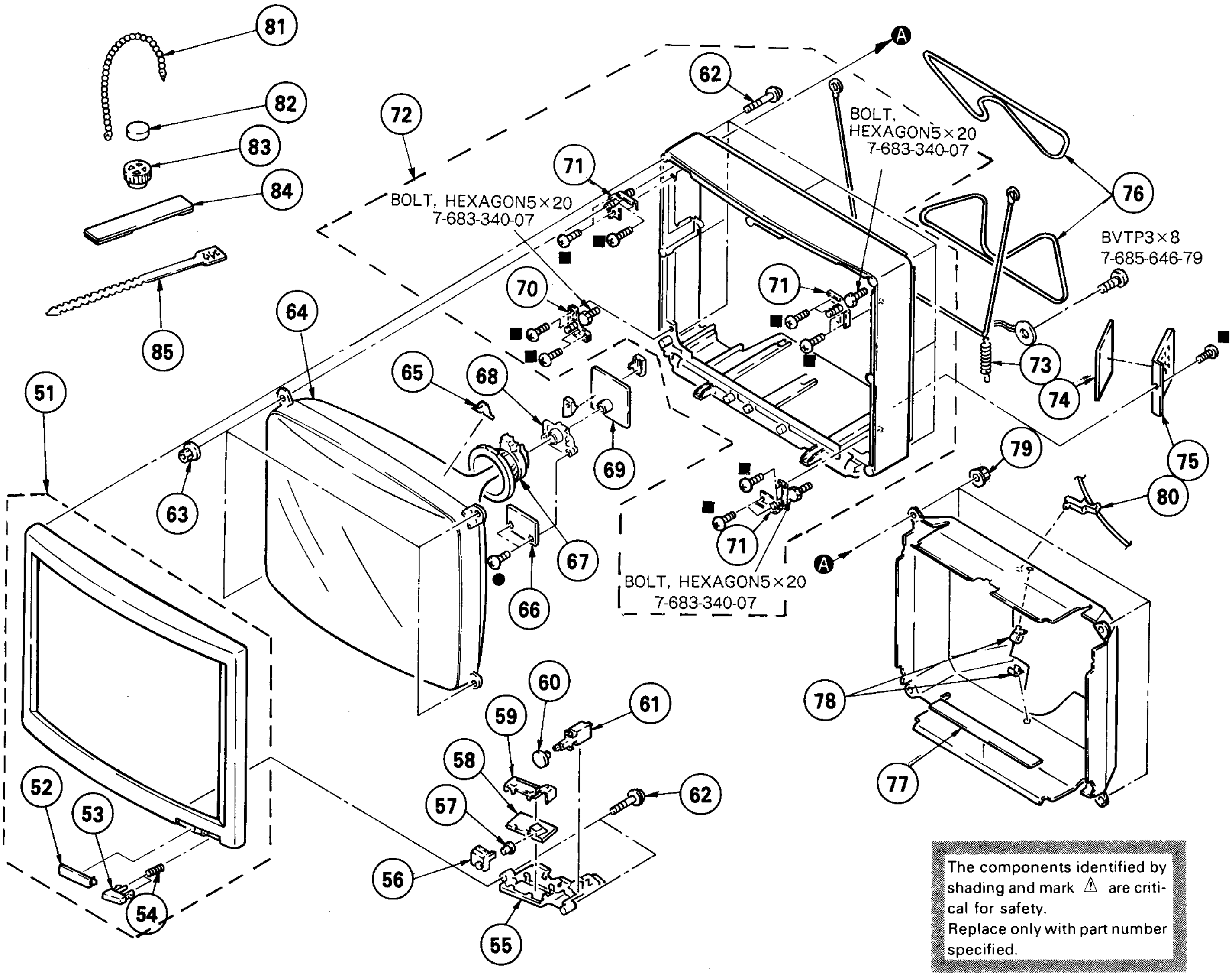
■ BVTP4×16 7-685-633-79
● BVTP3×12 7-685-648-79
○ BVTP3×16 7-685-650-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1347-042-A	V BOARD, COMPLETE	
2	*A-1135-575-A	B BOARD, COMPLETE	
3	*A-1296-585-A	A BOARD, COMPLETE	
4	4-386-618-01	RIVET, T TYPE	
5	*A-1385-054-A	K BOARD, COMPLETE	
6	*A-1388-093-A	J BOARD, COMPLETE	
7	4-393-214-01	BRACKET, J	
8	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
9	⚠ 1-439-418-11	TRANSFORMER ASSY FLYBACK	
10	⚠ 4-389-778-01	HOLDER, AC CORD	
11	*A-1345-857-A	D BOARD, COMPLETE	
12	⚠ 1-574-745-11	CORD, POWER (WITH CONNECTOR)	
13	*A-1245-458-A	F BOARD, COMPLETE	
14	X-4392-411-2	COVER ASSY, REAR	
15	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	

6-2. CHASSIS

■ BVTP4×16 7-685-633-79
● BVTP3×12 7-685-648-79


81
82
83
84
85
72
62
A
BOLT, HEXAGON5×20
7-683-340-07
76
71
BOLT, HEXAGON5×20
7-683-340-07
BVTP3×8
7-685-646-79
70
71
64
73
74
65
68
51
69
75
79
63
80
71
A
67
BOLT, HEXAGON5×20
7-683-340-07
66
60
78
61
59
58
62
57
77
52
53
56
54
55

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4393-204-1	BEZEL ASSY	52
52	X-4393-201-1	PLATE ASSY, ORNAMENTAL	
53	4-393-207-01	BUTTON, POWER	
54	4-329-112-00	SPRING	
55	*4-392-437-01	BRACKET, H4	
56	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
57	*4-374-987-01	GUIDE, LIGHT	
58	*1-630-233-11	H1 BOARD	
59	*4-393-206-01	COVER, PROTECTION	
60	4-392-429-01	SHAFT, AC	
61	⚠1-571-877-11	SWITCH, PUSH (AC POWER)	
62	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
63	4-387-204-01	NUT, SPECIAL, PICTURE TUBE	
64	⚠8-733-721-05	PICTURE TUBE (A80JYV10X)	
65	3-703-961-01	SPACER, DY	
66	*A-1342-088-A	VM BOARD, COMPLETE	
67	⚠1-451-315-11	DEFLECTION YOKE (Y34FXA)	
68	1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)	
69	*A-1330-967-A	C BOARD, COMPLETE	
70	4-383-181-01	BRACKET (B), PICTURE TUBE	
71	4-383-180-01	BRACKET (A), PICTURE TUBE	
72	X-4393-203-1	CABINET ASSY	62,70,71
73	*4-376-036-01	SPRING, TENSION	
74	*1-630-234-11	H2 BOARD	
75	X-4393-202-1	BRACKET ASSY, H2	
76	⚠1-426-433-11	COIL, DEMAGNETIZATION	
77	4-385-452-01	CLOTH	
78	*4-371-629-01	STOPPER, WIRE	
79	4-306-034-00	FLANGE NUT,(B) 5MM	
80	*4-387-216-01	HOLDER, LEAD	
81	4-308-870-00	CLIP LEAD WIRE	
82	1-452-032-00	MAGNET, DISK; 10MM φ	
83	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
84	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
85	3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

Note : In this parts list, the mounting diagram is for a different product.
Therefore, an excess of parts is listed.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-575-A	B BOARD, COMPLETE			

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C301	1-136-165-00	MYLAR	0.1MF	10%	50V
C302	1-136-165-00	MYLAR	0.1MF	10%	50V
C303	1-126-101-11	ELECT	100MF	20%	16V
C304	1-136-165-00	MYLAR	0.1MF	10%	50V
C305	1-124-119-00	ELECT	330MF	20%	16V
C306	1-124-902-00	ELECT	0.47MF	20%	50V
C307	1-124-902-00	ELECT	0.47MF	20%	50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-124-902-00	ELECT	0.47MF	20%	50V
C310	1-136-165-00	MYLAR	0.1MF	10%	50V
C311	1-136-165-00	MYLAR	0.1MF	10%	50V
C312	1-124-902-00	ELECT	0.47MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-902-00	ELECT	0.47MF	20%	50V
C315	1-124-499-11	ELECT	1MF	20%	50V
C316	1-101-004-00	CERAMIC	0.01MF		50V
C317	1-102-953-00	CERAMIC	18PF	5%	50V
C318	1-124-477-11	ELECT	47MF	20%	16V
C319	1-126-101-11	ELECT	100MF	20%	16V
C320	1-102-973-00	CERAMIC	100PF	5%	50V
C321	1-124-119-00	ELECT	330MF	20%	16V
C322	1-102-953-00	CERAMIC	18PF	5%	50V
C323	1-124-477-11	ELECT	47MF	20%	16V
C324	1-124-477-11	ELECT	47MF	20%	16V
C326	1-101-004-00	CERAMIC	0.01MF		50V
C327	1-101-004-00	CERAMIC	0.01MF		50V
C328	1-102-973-00	CERAMIC	100PF	5%	50V
C329	1-124-499-11	ELECT	1MF	20%	50V
C330	1-101-004-00	CERAMIC	0.01MF		50V
C331	1-126-101-11	ELECT	100MF	20%	16V
C332	1-124-360-00	ELECT	1000MF	20%	16V
C333	1-101-005-00	CERAMIC	0.022MF		50V
C334	1-101-884-00	CERAMIC	56PF	5%	50V
C335	1-101-006-00	CERAMIC	0.047MF		50V
C336	1-136-153-00	MYLAR	0.01MF	10%	50V
C337	1-101-004-00	CERAMIC	0.01MF		50V
C338	1-101-888-00	CERAMIC	68PF	5%	50V
C339	1-102-816-00	CERAMIC	120PF	5%	50V
C340	1-102-953-00	CERAMIC	18PF	5%	50V
C341	1-102-978-00	CERAMIC	220PF	5%	50V
C342	1-102-953-00	CERAMIC	18PF	5%	50V
C343	1-102-816-00	CERAMIC	120PF	5%	50V
C344	1-101-888-00	CERAMIC	68PF	5%	50V
C345	1-102-978-00	CERAMIC	220PF	5%	50V
C347	1-124-499-11	ELECT	1MF	20%	50V
C348	1-124-499-11	ELECT	1MF	20%	50V
C349	1-136-173-00	FILM	0.47MF	5%	50V
C350	1-136-161-00	MYLAR	0.047MF	10%	50V
C351	1-136-157-00	MYLAR	0.022MF	10%	50V
C352	1-136-157-00	MYLAR	0.022MF	10%	50V
C353	1-102-963-00	CERAMIC	33PF	5%	50V
C354	1-102-074-00	CERAMIC	0.001MF	10%	50V
C355	1-102-816-00	CERAMIC	120PF	5%	50V
C356	1-101-004-00	CERAMIC	0.01MF		50V
C357	1-102-965-00	CERAMIC	39PF	5%	50V
C358	1-101-004-00	CERAMIC	0.01MF		50V
C359	1-124-963-11	ELECT	33MF	20%	16V
C360	1-124-963-11	ELECT	33MF	20%	16V
C361	1-101-004-00	CERAMIC	0.01MF		50V
C364	1-101-361-00	CERAMIC	150PF	5%	50V
C366	1-124-360-00	ELECT	1000MF	20%	16V
C368	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C369	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C370	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C371	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C374	1-124-477-11	ELECT	47MF	20%	16V
C376	1-102-978-00	CERAMIC	220PF	5%	50V
C377	1-101-888-00	CERAMIC	68PF	5%	50V
C379	1-124-499-11	ELECT	1MF	20%	50V
C380	1-124-963-11	ELECT	33MF	20%	16V
C381	1-124-925-11	ELECT	2.2MF	20%	50V
C382	1-124-927-11	ELECT	4.7MF	20%	50V
C384	1-124-477-11	ELECT	47MF	20%	16V
C385	1-124-927-11	ELECT	4.7MF	20%	50V
C386	1-136-165-00	MYLAR	0.1MF	10%	50V
C386A	1-124-499-11	ELECT	1MF	20%	50V
C399	1-126-101-11	ELECT	100MF	20%	16V
C413	1-101-004-00	CERAMIC	0.01MF		50V
C414	1-124-477-11	ELECT	47MF	20%	16V
C431	1-124-963-11	ELECT	33MF	20%	16V
C1303	1-124-963-11	ELECT	33MF	20%	16V
C1319	1-126-101-11	ELECT	100MF	20%	16V
C1321	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1383	1-124-477-11	ELECT	47MF	20%	16V
C1384	1-124-477-11	ELECT	47MF	20%	16V
C1385	1-124-477-11	ELECT	47MF	20%	16V
C1386	1-124-477-11	ELECT	47MF	20%	16V
C1387	1-124-477-11	ELECT	47MF	20%	16V
C1389	1-124-477-11	ELECT	47MF	20%	16V
C1390	1-124-477-11	ELECT	47MF	20%	16V
C1391	1-123-875-11	ELECT	10MF	20%	50V
C1392	1-102-973-00	CERAMIC	100PF	5%	50V
C1393	1-101-884-00	CERAMIC	56PF	5%	50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNB1	*1-564-506-11	PLUG, CONNECTOR 3P	
CNB2	*1-564-509-11	PLUG, CONNECTOR 6P	
CNB5	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	

B

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNB6	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	
CNB7	*1-564-505-11	PLUG, CONNECTOR 2P	
CNB8	*1-564-509-11	PLUG, CONNECTOR 6P	
		<FILTER>	
CP302	1-232-096-00	COMPOSITION CIRCUIT BLOCK	
		<TRIMMER>	
CT331	1-141-181-11	CAP, TRIMMER	
CT332	1-141-181-11	CAP, TRIMMER	
		<DIODE>	
D301	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-110-23	DIODE RD11ES-B3	
D308	8-719-911-19	DIODE 1SS119	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D331	8-719-911-19	DIODE 1SS119	
D333	8-719-911-19	DIODE 1SS119	
D337	8-719-109-93	DIODE RD6.2ES-B2	
D357A	8-719-911-19	DIODE 1SS119	
		<DELAY LINE>	
DL331	1-415-122-31	DELAY LINE, 1H (PAL)	
		<IC>	
IC301	8-759-923-81	IC TDA4580	
IC331	8-759-947-20	IC TDA4555-V8	
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	
IC1302	8-759-913-11	IC CX20125	
IC1306	8-759-800-81	IC LA7016	
IC1310	1-464-932-31	FILTER BLOCK, COM (CFB-3)	
IC1311	8-759-800-81	IC LA7016	
IC1312	8-759-800-81	IC LA7016	
IC1313	8-759-800-81	IC LA7016	
		<COIL>	
L301	1-410-466-41	INDUCTOR 4.7UH	
L302	1-410-466-41	INDUCTOR 4.7UH	
L304	1-410-470-11	INDUCTOR 10UH	
L305	1-408-416-00	INDUCTOR 39UH	
L306	1-410-470-11	INDUCTOR 10UH	
L307	1-410-470-11	INDUCTOR 10UH	
L308	1-410-470-11	INDUCTOR 10UH	
L331	1-408-408-00	INDUCTOR 8.2UH	
L332	1-404-539-11	COIL	
L333	1-404-554-11	COIL	
L334	1-404-554-11	COIL	
L335	1-404-554-11	COIL	
L336	1-404-495-00	COIL	
L337	1-404-495-00	COIL	
L338	1-410-470-11	INDUCTOR 10UH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
L339	1-410-478-11	INDUCTOR 47UH	
L344	1-410-470-11	INDUCTOR 10UH	
L371	1-410-324-11	INDUCTOR 4.7UH	
L372	1-410-324-11	INDUCTOR 4.7UH	
L373	1-410-324-11	INDUCTOR 4.7UH	
L405	1-410-470-11	INDUCTOR 10UH	
L411	1-410-466-41	INDUCTOR 4.7UH	
L1309	1-408-427-00	INDUCTOR 330UH	
		<TRANSISTOR>	
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-900-89	TRANSISTOR DTC144ES	
Q305	8-729-900-36	TRANSISTOR DTC124ES	
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q331	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q332	8-729-900-36	TRANSISTOR DTC124ES	
Q333	8-729-900-36	TRANSISTOR DTC124ES	
Q334	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q335	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q336	8-729-900-89	TRANSISTOR DTC144ES	
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q346	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q347	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q348	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q349	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q381	8-729-900-36	TRANSISTOR DTC124ES	
Q1351	8-729-900-61	TRANSISTOR DTA114ES	
Q1352	8-729-900-61	TRANSISTOR DTA114ES	
Q1353	8-729-900-61	TRANSISTOR DTA114ES	
Q1354	8-729-900-61	TRANSISTOR DTA114ES	
Q1360	8-729-177-32	TRANSISTOR 2SD773	
Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1363	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R301	1-249-411-11	CARBON 330 5% 1/4W	
R302	1-249-411-11	CARBON 330 5% 1/4W	
R303	1-249-411-11	CARBON 330 5% 1/4W	
R304	1-247-704-11	CARBON 220 5% 1/4W	
R305	1-249-421-11	CARBON 2.2K 5% 1/4W	
R306	1-249-462-11	CARBON 22K 5% 1/4W	
R307	1-249-441-11	CARBON 100K 5% 1/4W	
R308	1-249-414-11	CARBON 560 5% 1/4W	
R309	1-249-405-11	CARBON 100 5% 1/4W	
R310	1-249-405-11	CARBON 100 5% 1/4W	
R311	1-249-405-11	CARBON 100 5% 1/4W	
R312	1-249-409-11	CARBON 220 5% 1/4W	
R313	1-249-437-11	CARBON 47K 5% 1/4W	
R314	1-249-413-11	CARBON 470 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R315	1-247-702-11	CARBON	150	5%	1/4W	
R316	1-247-702-11	CARBON	150	5%	1/4W	
R317	1-249-407-11	CARBON	150	5%	1/4W	
R318	1-249-433-11	CARBON	22K	5%	1/4W	
R319	1-247-704-11	CARBON	220	5%	1/4W	
R321	1-249-419-11	CARBON	1.5K	5%	1/4W	
R322	1-249-420-11	CARBON	1.8K	5%	1/4W	
R325	1-246-545-00	CARBON	1M	5%	1/4W	
R326	1-249-419-11	CARBON	1.5K	5%	1/4W	
R327	1-249-428-11	CARBON	8.2K	5%	1/4W	
R328	1-249-409-11	CARBON	220	5%	1/4W	
R329	1-249-409-11	CARBON	220	5%	1/4W	
R330	1-249-409-11	CARBON	220	5%	1/4W	
R331	1-249-418-11	CARBON	1.2K	5%	1/4W	
R332	1-249-401-11	CARBON	47	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-408-11	CARBON	180	5%	1/4W	
R335	1-249-415-11	CARBON	680	5%	1/4W	
R336	1-249-418-11	CARBON	1.2K	5%	1/4W	
R337	1-214-746-00	METAL	5.1K	1%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-423-11	CARBON	3.3K	5%	1/4W	
R340	1-249-435-11	CARBON	33K	5%	1/4W	
R341	1-249-428-11	CARBON	8.2K	5%	1/4W	
R342	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-429-11	CARBON	10K	5%	1/4W	
R344	1-249-417-11	CARBON	1K	5%	1/4W	
R345	1-247-887-00	CARBON	220K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-410-11	CARBON	270	5%	1/4W	
R350	1-249-437-11	CARBON	47K	5%	1/4W	
R351	1-247-700-11	CARBON	100	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-881-00	CARBON	120K	5%	1/4W	
R354	1-247-723-11	CARBON	6.8K	5%	1/4W	
R355	1-249-423-11	CARBON	3.3K	5%	1/4W	
R356	1-249-427-11	CARBON	6.8K	5%	1/4W	
R357	1-247-704-11	CARBON	220	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-419-11	CARBON	1.5K	5%	1/4W	
R360	1-249-410-11	CARBON	270	5%	1/4W	
R361	1-249-417-11	CARBON	1K	5%	1/4W	
R363	1-249-410-11	CARBON	270	5%	1/4W	
R364	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-409-11	CARBON	220	5%	1/4W	
R366	1-249-419-11	CARBON	1.5K	5%	1/4W	
R367	1-247-704-11	CARBON	220	5%	1/4W	
R368	1-249-436-11	CARBON	39K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-418-11	CARBON	1.2K	5%	1/4W	
R371	1-249-417-11	CARBON	1K	5%	1/4W	
R373	1-249-428-11	CARBON	8.2K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R377	1-249-436-11	CARBON	39K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-247-726-11	CARBON	33K	5%	1/4W	
R380	1-249-436-11	CARBON	39K	5%	1/4W	
R381	1-247-713-11	CARBON	1K	5%	1/4W	
R382	1-249-409-11	CARBON	220	5%	1/4W	
R384	1-247-756-11	CARBON	2.2K	5%	1/2W	
R385	1-247-891-00	CARBON	330K	5%	1/4W	
R386	1-247-891-00	CARBON	330K	5%	1/4W	
R392	1-249-414-11	CARBON	560	5%	1/4W	
R393	1-249-414-11	CARBON	560	5%	1/4W	
R394	1-249-414-11	CARBON	560	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-410-11	CARBON	270	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R399	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-415-11	CARBON	680	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-249-415-11	CARBON	680	5%	1/4W	
R417	1-249-415-11	CARBON	680	5%	1/4W	
R418	1-215-412-00	METAL	430	1%	1/6W	
R419	1-247-710-11	CARBON	560	5%	1/4W	
R420	1-249-414-11	CARBON	560	5%	1/4W	
R421	1-249-414-11	CARBON	560	5%	1/4W	
R425	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-415-11	CARBON	680	5%	1/4W	
R428	1-247-704-11	CARBON	220	5%	1/4W	
R429	1-249-462-11	CARBON	22K	5%	1/4W	
R430	1-247-713-11	CARBON	1K	5%	1/4W	
R431	1-249-414-11	CARBON	560	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	
R434	1-249-417-11	CARBON	1K	5%	1/4W	
R435	1-247-893-11	CARBON	390K	5%	1/4W	
R436	1-249-421-11	CARBON	2.2K	5%	1/4W	
R438	1-249-416-11	CARBON	820	5%	1/4W	
R439	1-249-415-11	CARBON	680	5%	1/4W	
R1308	1-249-411-11	CARBON	330	5%	1/4W	
R1313	1-249-429-11	CARBON	10K	5%	1/4W	
R1315	1-249-429-11	CARBON	10K	5%	1/4W	
R2446	1-249-416-11	CARBON	820	5%	1/4W	
R2447	1-247-712-11	CARBON	820	5%	1/4W	
R2448	1-247-712-11	CARBON	820	5%	1/4W	
R2449	1-247-712-11	CARBON	820	5%	1/4W	
R2450	1-249-436-11	CARBON	39K	5%	1/4W	
R2451	1-247-726-11	CARBON	33K	5%	1/4W	
R2460	1-249-424-11	CARBON	3.9K	5%	1/4W	
R2461	1-249-432-11	CARBON	18K	5%	1/4W	
R2462	1-247-721-11	CARBON	4.7K	5%	1/4W	
R2463	1-249-419-11	CARBON	1.5K	5%	1/4W	
R2465	1-247-713-11	CARBON	1K	5%	1/4W	
R2466	1-247-713-11	CARBON	1K	5%	1/4W	
R2472	1-249-401-11	CARBON	47	5%	1/4W	

<VARIABLE RESISTOR>

RV301	1-228-993-00	RES, ADJ, CARBON 4.7K
RV331	1-230-504-11	RES, ADJ, CARBON 220

<TRANSFORMER>

T331	1-404-584-11	COIL

<CRYSTAL>

X331	1-567-413-11	VIBRATOR, CRYSTAL
X332	1-527-789-00	VINRATOR, CRYSTAL

****

*A-1245-458-A F BOARD, COMPLETE
****

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C602 ⚠	1-136-567-51	FILM	0.47MF	20%	250V
C604 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C605 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C606 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C607 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C608 ⚠	1-136-360-51	FILM	0.22MF	20%	250V
C609	1-124-122-11	ELECT	100MF	20%	50V
C610	1-124-910-11	ELECT	47MF	20%	50V
C611	1-124-122-11	ELECT	100MF	20%	50V
C612	1-162-116-00	CERAMIC	680PF	10%	2KV
C613	1-106-379-12	MYLAR	0.033MF	10%	200V
C618	1-125-555-11	ELECT	330MF	20%	400V
C620	1-129-724-00	FILM	0.068MF	20%	630V
C621 ⚠	1-136-360-51	FILM	0.22MF	20%	250V
C623	1-102-030-00	CERAMIC	330PF	10%	500V
C651 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C652 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C653	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V
C654	1-124-607-11	ELECT	2200MF	20%	50V
C655	1-124-618-11	ELECT	2200MF	20%	35V
C656	1-124-360-00	ELECT	1000MF	20%	16V
C658	1-102-030-00	CERAMIC	330PF	10%	500V
C661	1-102-030-00	CERAMIC	330PF	10%	500V
C662	1-124-618-11	ELECT	2200MF	20%	35V
C663	1-136-173-00	FILM	0.47MF	5%	50V
C664	1-162-115-00	CERAMIC	330PF	10%	2KV
C690 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C691 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNF1	*1-506-348-XX	PIN, CONNECTOR 3P
CNF2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CNF3	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CNF4	*1-564-513-11	PLUG, CONNECTOR 10P
CNF5	*1-564-104-00	PIN, CONNECTOR 3P
CNF6	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CNF8	*1-564-505-11	PLUG, CONNECTOR 2P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D601 ⚠	8-719-946-90	DIODE KBU4JL-6088
D605	8-719-302-21	DIODE EU2Z
D607	8-719-300-70	DIODE RH-1C
D610	8-719-302-21	DIODE EU2Z
D651	8-719-939-07	DIODE ERD38-06
D652	8-719-301-64	DIODE RU4Z
D653	8-719-300-59	DIODE CTU-12S
D654	8-719-300-33	DIODE RU-3AM
D655	8-719-300-33	DIODE RU-3AM
D657	8-719-300-59	DIODE CTU-12S

<EYELET>

REF.NO.	PART NO.	DESCRIPTION
	*4-341-751-01	EYELET
EY1	*4-341-752-01	EYELET
EY2	*4-341-752-01	EYELET
EY3	*4-341-752-01	EYELET
EY4	*4-341-752-01	EYELET

<FUSE>

REF.NO.	PART NO.	DESCRIPTION
F601 ⚠	1-532-299-11	FUSE, TIME-LAG 5A/250V
	*1-533-189-11	HOLDER, FUSE; F601

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC602	8-749-920-63	IC STR-S5941

<COIL>

REF.NO.	PART NO.	DESCRIPTION
L658	1-410-397-21	FERRITE BEAD INDUCTOR
L659	1-410-397-21	FERRITE BEAD INDUCTOR
L660	1-410-397-21	FERRITE BEAD INDUCTOR
L661	1-410-397-21	FERRITE BEAD INDUCTOR
L662	1-410-397-21	FERRITE BEAD INDUCTOR

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION
PS652 ⚠	1-532-984-91	LINK, IC
PS653 ⚠	1-532-984-91	LINK, IC
PS654 ⚠	1-532-984-91	LINK, IC
PS656 ⚠	1-532-675-91	LINK, IC

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q651	8-729-900-36	TRANSISTOR DTC124ES
Q652	8-729-177-32	TRANSISTOR 2SD773

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R601	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R602	1-247-895-00	CARBON	470K	5%	1/4W	
R603	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R604	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R605	1-205-949-11	WIREWOUND	1.8	5%	10W	
R606	1-205-949-11	WIREWOUND	1.8	5%	10W	
R607	1-215-883-11	METAL OXIDE	33	5%	2W	F
R608	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R609	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R611	1-216-398-11	METAL OXIDE	5.6	5%	3W	F
R612	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R613	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R651 ⚠	1-247-289-11	CARBON	8.2M	5%	1W	
R653	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R654	1-249-425-11	CARBON	4.7K	5%	1/4W	
R655	1-247-739-11	CARBON	100	5%	1/2W	

<RELAY>

REF.NO.	PART NO.	DESCRIPTION
RY601 ⚠	1-515-579-11	RELAY

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T602 ⚠	1-421-776-11	LFT
T603 ⚠	1-449-500-21	TRANSFORMER, REGULATOR
T604 ⚠	1-421-776-11	LFT

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
THP601 ⚠	1-808-059-31	THERMISTOR, POSITIVE

****

PART NO.	DESCRIPTION
*A-1296-585-A	A BOARD, COMPLETE

****

PART NO.	DESCRIPTION
1-464-964-11	IF BLOCK (IFG-5.5S)
*4-369-734-01	HEAT SINK

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C103	1-130-475-00	MYLAR	0.0022MF	10%	50V	
C104	1-124-477-11	ELECT	47MF	20%	16V	
C105	1-101-003-00	CERAMIC	0.0047MF		50V	
C106	1-126-233-11	ELECT	22MF	20%	50V	
C107	1-136-177-00	FILM	1MF	5%	50V	
C108	1-101-004-00	CERAMIC	0.01MF		50V	
C109	1-101-003-00	CERAMIC	0.0047MF		50V	
C110	1-101-003-00	CERAMIC	0.0047MF		50V	
C111	1-124-477-11	ELECT	47MF	20%	16V	
C112	1-101-003-00	CERAMIC	0.0047MF		50V	
C113	1-101-004-00	CERAMIC	0.01MF		50V	
C115	1-123-875-11	ELECT	10MF	20%	50V	
C116	1-123-875-11	ELECT	10MF	20%	50V	
C117	1-123-875-11	ELECT	10MF	20%	50V	
C118	1-123-875-11	ELECT	10MF	20%	50V	
C119	1-136-161-00	MYLAR	0.047MF	10%	50V	
C120	1-102-965-00	CERAMIC	39PF	5%	50V	
C121	1-124-477-11	ELECT	47MF	20%	16V	
C122	1-124-477-11	ELECT	47MF	20%	16V	
C123	1-101-004-00	CERAMIC	0.01MF		50V	
C124	1-124-477-11	ELECT	47MF	20%	16V	
C127	1-124-477-11	ELECT	47MF	20%	16V	
C128	1-124-477-11	ELECT	47MF	20%	16V	
C129	1-124-477-11	ELECT	47MF	20%	16V	
C130	1-126-101-11	ELECT	100MF	20%	16V	
C132	1-101-888-00	CERAMIC	68PF	5%	50V	
C133	1-102-973-00	CERAMIC	100PF	5%	50V	
C134	1-102-963-00	CERAMIC	33PF	5%	50V	
C135	1-124-477-11	ELECT	47MF	20%	16V	
C136	1-124-477-11	ELECT	47MF	20%	16V	
C137	1-124-477-11	ELECT	47MF	20%	16V	
C138	1-136-165-00	MYLAR	0.1MF	10%	50V	
C141	1-102-822-00	CERAMIC	390PF	5%	50V	
C142	1-101-361-00	CERAMIC	150PF	5%	50V	
C143	1-102-973-00	CERAMIC	100PF	5%	50V	
C145	1-101-888-00	CERAMIC	68PF	5%	50V	
C151	1-124-477-11	ELECT	47MF	20%	16V	
C152	1-136-161-00	MYLAR	0.047MF	10%	50V	
C153	1-101-004-00	CERAMIC	0.01MF		50V	
C154	1-101-004-00	CERAMIC	0.01MF		50V	
C155	1-124-477-11	ELECT	47MF	20%	16V	
C181	1-101-004-00	CERAMIC	0.01MF		50V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CD101	1-404-684-11	DISCRIMINATOR, CERAMIC	
CF101	1-567-569-11	FILTER, CERAMIC	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	
CNA16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
CNA17	*1-564-886-21	PLUG, CONNECTOR 9P	
CNA18	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D101	8-719-000-12	DIODE MC931	
D108	8-719-911-19	DIODE 1SS119	
D109	8-719-911-19	DIODE 1SS119	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC101	8-759-208-08	IC TC4052BP	
IC102	8-759-946-32	IC TEA2014A	
IC103	8-759-978-65	IC SAB3036	
IC105	8-759-003-90	IC TBA129	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L100	1-410-116-11	INDUCTOR	560UH	
L101	1-408-225-00	INDUCTOR	3.3UH	
L102	1-410-470-11	INDUCTOR	10UH	
L103	1-408-408-00	INDUCTOR	8.2UH	
L104	1-410-476-11	INDUCTOR	33UH	
L106	1-410-471-11	INDUCTOR	12UH	
L108	1-410-471-11	INDUCTOR	12UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q106	8-729-900-65	TRANSISTOR DTA144ES	
Q107	8-729-900-89	TRANSISTOR DTC144ES	
Q109	8-729-901-59	TRANSISTOR BF199	
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q181	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q182	8-729-900-89	TRANSISTOR DTC144ES	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R102	1-249-429-11	CARBON	10K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R104	1-249-465-11	CARBON	47K	5%	1/4W	
R105	1-247-721-11	CARBON	4.7K	5%	1/4W	
R106	1-247-721-11	CARBON	4.7K	5%	1/4W	
R107	1-249-432-11	CARBON	18K	5%	1/4W	
R109	1-249-441-11	CARBON	100K	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-423-11	CARBON	3.3K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-249-425-11	CARBON	4.7K	5%	1/4W	
R114	1-249-413-11	CARBON	470	5%	1/4W	
R115	1-249-405-11	CARBON	100	5%	1/4W	
R118	1-247-725-11	CARBON	10K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-428-11	CARBON	8.2K	5%	1/4W	
R123	1-249-460-11	CARBON	15K	5%	1/4W	
R124	1-249-460-11	CARBON	15K	5%	1/4W	
R125	1-249-460-11	CARBON	15K	5%	1/4W	
R126	1-249-460-11	CARBON	15K	5%	1/4W	
R127	1-249-460-11	CARBON	15K	5%	1/4W	
R128	1-247-708-11	CARBON	470	5%	1/4W	
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R130	1-249-421-11	CARBON	2.2K	5%	1/4W	
R131	1-249-422-11	CARBON	2.7K	5%	1/4W	
R133	1-249-422-11	CARBON	2.7K	5%	1/4W	
R134	1-249-422-11	CARBON	2.7K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R136	1-249-413-11	CARBON	470	5%	1/4W	
R137	1-249-405-11	CARBON	100	5%	1/4W	
R138	1-249-413-11	CARBON	470	5%	1/4W	
R139	1-249-413-11	CARBON	470	5%	1/4W	
R140	1-249-418-11	CARBON	1.2K	5%	1/4W	
R141	1-249-413-11	CARBON	470	5%	1/4W	
R142	1-249-413-11	CARBON	470	5%	1/4W	
R143	1-249-416-11	CARBON	820	5%	1/4W	
R144	1-249-417-11	CARBON	1K	5%	1/4W	
R145	1-249-413-11	CARBON	470	5%	1/4W	
R146	1-249-421-11	CARBON	2.2K	5%	1/4W	
R147	1-249-429-11	CARBON	10K	5%	1/4W	
R152	1-249-417-11	CARBON	1K	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-247-710-11	CARBON	560	5%	1/4W	
R155	1-249-417-11	CARBON	1K	5%	1/4W	
R157	1-247-713-11	CARBON	1K	5%	1/4W	
R158	1-247-704-11	CARBON	220	5%	1/4W	
R159	1-247-704-11	CARBON	220	5%	1/4W	
R160	1-249-396-11	CARBON	18	5%	1/4W	
R166	1-249-460-11	CARBON	15K	5%	1/4W	
R181	1-247-713-11	CARBON	1K	5%	1/4W	
R182	1-249-425-11	CARBON	4.7K	5%	1/4W	

<IF BLOCK>

REF.NO.	PART NO.	DESCRIPTION
SIF101	1-464-963-11	IF BLOCK (IFG-334F)
VIF101	1-464-962-11	IF BLOCK (IFG-389FS)

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T101	1-404-806-11	COIL
T102	1-404-493-00	COIL

<TUNER>

REF.NO.	PART NO.	DESCRIPTION
TU101⚠	1-465-059-11	TUNER, ET (UV-616S)

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X101	1-527-726-00	VIBRATOR, CRYSTAL

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*A-1330-967-A C BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION
	*4-379-160-01	COVER (REAR LID), CV
	*4-379-167-01	COVER (MAIN), CV

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C703	1-102-822-00	CERAMIC	390PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-980-00	CERAMIC	270PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-880-00	CERAMIC	47PF	5%	50V	
C712	1-102-820-00	CERAMIC	330PF	5%	50V	
C714	1-126-103-11	ELECT	470MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
C721	1-123-875-11	ELECT	10MF	20%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNC71	1-506-348-XX	PIN, CONNECTOR 3P
CNC72	*1-564-509-11	PLUG, CONNECTOR 6P
CNC81	*1-564-506-11	PLUG, CONNECTOR 3P
CNC82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D711	8-719-300-33	DIODE RU-3AM
D713	8-719-110-14	DIODE RD9.1ES-B3

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J701	1-526-798-51	SOCKET, PICTURE TUBE

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L704	1-410-476-11	INDUCTOR	33UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q703	8-729-326-11	TRANSISTOR 2SC2611
Q704	8-729-200-17	TRANSISTOR 2SA1091
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q706	8-729-326-11	TRANSISTOR 2SC2611
Q707	8-729-200-17	TRANSISTOR 2SA1091
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q709	8-729-326-11	TRANSISTOR 2SC2611
Q710	8-729-200-17	TRANSISTOR 2SA1091

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-247-706-11	CARBON	330	5%	1/4W	
R708	1-247-692-11	CARBON	22	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-453-00	METAL	22K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-461-00	METAL	47K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-247-704-11	CARBON	220	5%	1/4W	
R717	1-247-711-11	CARBON	680	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
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REF.NO.	PART NO.	DESCRIPTION				REMARK
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-247-711-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-214-779-00	METAL	120K	1%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-214-777-00	METAL	100K	1%	1/4W	
R738	1-202-549-00	SOLID	100	10%	1/2W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	
R740	1-202-846-00	SOLID	470K	10%	1/2W	
R741	1-202-837-00	SOLID	82K	10%	1/2W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M
RV703	1-228-991-00	RES, ADJ, CARBON 2.2K
RV704	1-228-991-00	RES, ADJ, CARBON 2.2K

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*A-1342-088-A VM BOARD, COMPLETE
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*1-564-506-11 PLUG, CONNECTOR 3P
*1-564-507-11 PLUG, CONNECTOR 4P

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C751	1-102-971-00	CERAMIC	82PF	5%	50V	
C752	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C754	1-126-101-11	ELECT	100MF	20%	16V	
C755	1-102-973-00	CERAMIC	100PF	5%	50V	
C756	1-106-367-00	MYLAR	0.01MF	10%	100V	
C758	1-106-367-00	MYLAR	0.01MF	10%	100V	
C760	1-124-925-11	ELECT	2.2MF	20%	50V	
C761	1-106-220-00	MYLAR	0.1MF	10%	100V	
C763	1-124-122-11	ELECT	100MF	20%	35V	
C764	1-126-176-11	ELECT	220MF	20%	6.3V	
C765	1-101-006-00	CERAMIC	0.047MF		50V	
C766	1-124-122-11	ELECT	100MF	20%	35V	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L751	1-408-413-00	INDUCTOR	22UH
L752	1-410-482-31	INDUCTOR	100UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	
Q751	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q752	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q753	8-729-140-96	TRANSISTOR	2SD774-34
Q754	8-729-177-22	TRANSISTOR	2SB772-P
Q755	8-729-188-24	TRANSISTOR	2SD882-P
Q756	8-729-808-76	TRANSISTOR	2SD1761-E
Q757	8-729-119-78	TRANSISTOR	2SC2785-HFE

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R751	1-249-409-11	CARBON	220	5%	1/4W	
R752	1-249-409-11	CARBON	220	5%	1/4W	
R753	1-249-418-11	CARBON	1.2K	5%	1/4W	
R754	1-249-416-11	CARBON	820	5%	1/4W	
R755	1-216-431-11	METAL OXIDE	560	5%	1W	F
R756	1-249-414-11	CARBON	560	5%	1/4W	
R757	1-249-426-11	CARBON	5.6K	5%	1/4W	
R758	1-249-435-11	CARBON	33K	5%	1/4W	
R759	1-249-405-11	CARBON	100	5%	1/4W	F
R760	1-216-449-11	METAL OXIDE	56	5%	2W	F
R764	1-249-409-11	CARBON	220	5%	1/4W	
R765	1-249-381-11	CARBON	1	5%	1/4W	F
R766	1-249-426-11	CARBON	5.6K	5%	1/4W	
R767	1-249-417-11	CARBON	1K	5%	1/4W	
R768	1-249-426-11	CARBON	5.6K	5%	1/4W	
R769	1-249-409-11	CARBON	220	5%	1/4W	
R771	1-249-423-11	CARBON	3.3K	5%	1/4W	
R772	1-249-391-11	CARBON	6.8	5%	1/4W	F
R773	1-249-396-11	CARBON	18	5%	1/4W	
R776	1-249-381-11	CARBON	1	5%	1/4W	F

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*A-1345-857-A D BOARD, COMPLETE
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*1-559-991-41 CONNECTOR ASSY 1P

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-106-371-00	MYLAR	0.015MF	10%	100V	
C504	1-101-361-00	CERAMIC	150PF	5%	50V	
C505	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C506	1-106-375-12	MYLAR	0.022MF		200V	
C507	1-136-171-00	FILM	0.33MF	5%	50V	
C508	1-106-375-12	MYLAR	0.022MF		200V	
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C513	1-106-343-00	MYLAR	0.001MF	10%	100V	
C514	1-106-228-00	MYLAR	0.22MF	10%	100V	
C515	1-124-499-11	ELECT	1MF	20%	50V	
C516	1-102-112-00	CERAMIC	330PF	10%	50V	
C517	1-124-910-11	ELECT	47MF	20%	50V	
C518	1-124-902-00	ELECT	0.47MF	20%	50V	
C519	1-136-173-00	FILM	0.47MF	5%	50V	
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C521	1-106-220-00	MYLAR	0.1MF	10%	100V	
C522	1-126-105-11	ELECT	1000MF	20%	35V	
C523	1-106-343-00	MYLAR	0.001MF	10%	100V	
C524	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C525	1-102-973-00	CERAMIC	100PF	5%	50V	
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	
C531	1-126-104-11	ELECT	470MF	20%	25V	
C532	1-124-122-11	ELECT	100MF	20%	50V	
C533	1-106-216-00	MYLAR	0.068MF	10%	100V	
C534	1-124-120-11	ELECT	220MF	20%	25V	
C536	1-131-365-00	TANTALUM	10MF	10%	16V	
C537	1-124-499-11	ELECT	1MF	20%	50V	
C538	1-106-343-00	MYLAR	0.001MF	10%	100V	
C539	1-102-820-00	CERAMIC	330PF	5%	50V	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C541	1-124-902-00	ELECT	0.47MF	20%	50V
C591	1-123-875-11	ELECT	10MF	20%	50V
C592	1-124-910-11	ELECT	47MF	20%	50V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C594	1-162-815-11	CERAMIC	47PF	5%	500V
C596	1-106-220-00	MYLAR	0.1MF	10%	100V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-228-00	CERAMIC	470PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-387-00	MYLAR	0.068MF	10%	200V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-124-494-00	ELECT	33MF		160V
C811	1-136-541-11	FILM	1.5MF	5%	200V
C812	1-123-946-00	ELECT	4.7MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-597-11	FILM	0.89MF	5%	200V
C817	1-136-686-11	FILM	0.018MF	3%	1.4KV
C818	1-129-722-00	FILM	0.047MF	5%	630V
C819 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C820	1-106-357-00	MYLAR	0.0039MF		200V
C820A	1-108-416-12	MYLAR	0.0039MF		200V
C821 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	200V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C828	1-106-383-00	MYLAR	0.047MF	10%	100V
C829	1-106-379-12	MYLAR	0.033MF	10%	200V
C849	1-102-112-00	CERAMIC	330PF	10%	50V
C850	1-101-821-00	CERAMIC	0.0022MF		500V
C851	1-126-105-11	ELECT	1000MF	20%	35V
C852	1-102-002-00	CERAMIC	680PF	10%	500V
C854	1-124-122-11	ELECT	100MF	20%	50V
C855	1-124-499-11	ELECT	1MF	20%	50V
C860	1-106-399-00	MYLAR	0.22MF	10%	200V
C861 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C1501	1-124-925-11	ELECT	2.2MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1503	1-106-343-00	MYLAR	0.001MF	10%	100V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-106-355-12	MYLAR	0.0033MF	10%	100V
C1508	1-123-875-11	ELECT	10MF	20%	50V
C1509	1-124-499-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-367-00	MYLAR	0.01MF	10%	100V
C1513	1-102-963-00	CERAMIC	33PF	5%	50V
C1520	1-102-108-00	CERAMIC	150PF	10%	50V
C1551	1-124-902-00	ELECT	0.47MF	20%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
C1553	1-102-228-00	CERAMIC	470PF	10%	500V
C1630	1-124-463-00	ELECT	0.1MF	20%	50V
C1631	1-124-187-11	ELECT	22MF	20%	50V
C1651	1-106-220-00	MYLAR	0.1MF	10%	100V
C1654	1-106-220-00	MYLAR	0.1MF	10%	100V
C1655	1-106-220-00	MYLAR	0.1MF	10%	100V
C1656	1-124-902-00	ELECT	0.47MF	20%	50V
C1657	1-106-383-00	MYLAR	0.047MF	10%	100V
C1707	1-130-481-00	MYLAR	0.0068MF	10%	50V
C1708	1-106-359-00	MYLAR	0.0047MF	10%	100V
C1710	1-106-395-00	MYLAR	0.15MF	10%	200V
C1711	1-124-925-11	ELECT	2.2MF	20%	50V
C1712	1-124-927-11	ELECT	4.7MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1713	1-124-910-11	ELECT	47MF	20%	50V
C1714	1-124-911-11	ELECT	220MF	20%	50V
C1715	1-124-910-11	ELECT	47MF	20%	50V
C1716	1-106-228-00	MYLAR	0.22MF	10%	100V
C1717	1-124-120-11	ELECT	220MF	20%	25V
C1718	1-136-165-00	FILM	0.1MF	5%	50V
C1719	1-124-927-11	ELECT	4.7MF	20%	50V
C1720	1-124-927-11	ELECT	4.7MF	20%	50V
C1721	1-123-875-11	ELECT	10MF	20%	50V
C1722	1-124-927-11	ELECT	4.7MF	20%	50V
C1723	1-123-875-11	ELECT	10MF	20%	50V
C1724	1-126-233-11	ELECT	22MF	20%	50V
C1725	1-124-360-00	ELECT	1000MF	20%	16V
C1726	1-124-910-11	ELECT	47MF	20%	50V
C1727	1-124-910-11	ELECT	47MF	20%	50V
C1734	1-124-360-00	ELECT	1000MF	20%	16V
C1735	1-106-379-12	MYLAR	0.033MF	10%	100V
C1736	1-124-499-11	ELECT	1MF	20%	50V
C1740	1-102-244-00	CERAMIC	220PF	10%	500V
C5502	1-124-119-00	ELECT	330MF	20%	16V
C5505	1-124-463-00	ELECT	0.1MF	20%	50V
		<FILTER>			
CF501	1-567-888-11	OSCILLATOR, CERAMIC			
		<CONNECTOR>			
CND20	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			
CND21	*1-564-104-00	PIN, CONNECTOR 3P			
CND22	*1-564-515-11	PLUG, CONNECTOR 12P			
CND23	*1-564-506-11	PLUG, CONNECTOR 3P			
CND81	*1-564-506-11	PLUG, CONNECTOR 3P			
CND82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
CND83	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P			
CND84	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
CND85	*1-564-507-11	PLUG, CONNECTOR 4P			
CND87	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
CND801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			
		<DIODE>			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-200-02	DIODE 10E2			
D504	8-719-911-55	DIODE U05G			
D506	8-719-000-12	DIODE MC931			
D508	8-719-911-19	DIODE 1SS119			
D511	8-719-911-55	DIODE U05G			
D512	8-719-911-55	DIODE U05G			
D513	8-719-109-81	DIODE RD4.7ES-B2			
D591	8-719-911-19	DIODE 1SS119			
D592	8-719-911-19	DIODE 1SS119			
D593	8-719-911-19	DIODE 1SS119			
D801	8-719-300-33	DIODE RU-3AM			
D802	8-719-300-33	DIODE RU-3AM			
D803	8-719-300-65	DIODE ES1F			
D804	8-719-911-55	DIODE U05G			
D805	8-719-911-55	DIODE U05G			
D806	8-719-945-80	DIODE ERC06-15S			
D807	8-719-945-80	DIODE ERC06-15S			
D808	8-719-900-26	DIODE ERD29-08J			
D809	8-719-911-19	DIODE 1SS119			
D850	8-719-901-58	DIODE RGP15J			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1501	8-719-300-33	DIODE RU-3AM	
D1502	8-719-911-19	DIODE 1SS119	
D1503	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-000-12	DIODE MC931	
D1515	8-719-911-19	DIODE 1SS119	
D1550	8-719-911-19	DIODE 1SS119	
D1552	8-719-300-33	DIODE RU-3AM	
D1553	8-719-911-19	DIODE 1SS119	
D1652	8-719-200-02	DIODE 10E2	
D1701	8-719-901-58	DIODE RGP15J	
D1702	8-719-908-06	DIODE ERA81-005	
D1703	8-719-908-06	DIODE ERA81-005	
D1704	8-719-911-19	DIODE 1SS119	
D1705	8-719-911-19	DIODE 1SS119	
D1707	8-719-300-33	DIODE RU-3AM	
D1708	8-719-109-81	DIODE RD4.7ES-B2	
D1709	8-719-109-89	DIODE RD5.6ES-B2	
D1710	8-719-109-89	DIODE RD5.6ES-B2	

<EYELET>

REF.NO.	PART NO.	DESCRIPTION	REMARK
EY1	*4-341-752-01	EYELET	
EY2	*4-341-752-01	EYELET	
EY3	*4-341-752-01	EYELET	
EY4	*4-341-752-01	EYELET	
EY5	*4-341-751-01	EYELET	
EY6	*4-341-751-01	EYELET	
EY7	*4-341-751-01	EYELET	
EY8	*4-341-751-01	EYELET	
EY9	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY11	*4-341-752-01	EYELET	
EY13	*4-341-752-01	EYELET	
EY14	*4-341-751-01	EYELET	
EY15	*4-341-751-01	EYELET	
EY16	*4-341-751-01	EYELET	
EY17	*4-341-751-01	EYELET	
EY20	*4-341-752-01	EYELET	
EY22	*4-341-752-01	EYELET	
EY23	*4-341-752-01	EYELET	
EY24	*4-341-752-01	EYELET	
EY26	*4-341-751-01	EYELET	
EY27	*4-341-751-01	EYELET	
EY28	*4-341-751-01	EYELET	
EY29	*4-341-751-01	EYELET	
EY30	*4-341-751-01	EYELET	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-970-73	IC TEA2028B	
IC502	8-759-944-57	IC TDA8170	
IC503	8-749-920-60	IC STR90120	
IC1501	8-759-942-16	IC TEA2031A	
IC1701	8-759-103-93	IC UPC393C	
IC1702	8-759-112-93	IC UPC4570HA-1	
IC1704	8-759-982-13	IC RC7812FA	
	*4-363-147-00	HEAT SINK, H.PIN; IC1704	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L501	1-408-225-00	INDUCTOR 3.3UH	
L801	1-459-111-00	COIL, DRAM CORE (CDI)	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-235-00	INDUCTOR 2.2MMH	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L807	1-408-938-00	INDUCTOR 22UH	
L809	*1-420-872-00	COIL, AIR CORE	
L811	1-459-104-00	COIL, DUST CORE	
L812	1-408-698-00	INDUCTOR 8.2UH	
L850	1-408-225-00	INDUCTOR 3.3UH	
L1651	1-443-012-00	TRANSFORMER, DYNAMIC CONVERSION	
L1652	1-459-583-11	COIL (WITH CORE)	
L1653	1-408-247-00	INDUCTOR 33MMH	
L1654	1-410-482-31	INDUCTOR 100UH	
L1702	1-410-093-11	INDUCTOR 33MMH	
L1703	1-459-592-11	COIL (WITH CORE) (PMC)	
L1704	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
L1705	1-408-235-00	INDUCTOR 2.2MMH	

<NEON LAMP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
NL801	1-519-108-XX	LAMP, NEON	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS1659	⚠1-532-727-91	LINK, IC	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	
Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q509	8-729-900-80	TRANSISTOR DTC114ES	
Q510	8-729-900-80	TRANSISTOR DTC114ES	
Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q513	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q592	8-729-900-80	TRANSISTOR DTC114ES	
Q598	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07	
	*4-378-214-01	HOLDER, TR; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-122-12	TRANSISTOR 2SA1221-L	
Q807	8-729-107-53	TRANSISTOR 2SC2275A	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1552	8-729-208-71	TRANSISTOR 2SC3298B-O	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1609	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1613	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1653	8-729-195-82	TRANSISTOR 2SC2958-L	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1703	8-729-208-71	TRANSISTOR 2SC3298B-O	
Q1704	8-729-140-96	TRANSISTOR 2SD774-34	
Q1705	8-729-140-96	TRANSISTOR 2SD774-34	
Q1706	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1707	8-729-809-29	TRANSISTOR 2SC4159-E	
Q1708	8-729-140-97	TRANSISTOR 2SB734-34	
Q1709	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1712	8-729-119-78	TRANSISTOR 2SC2785-HFE	

D

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q1716	8-729-900-80	TRANSISTOR DTC114ES				
Q1717	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		<RESISTOR>				
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-247-708-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-215-427-00	METAL	1.8K	1%	1/6W	
R505	1-249-460-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R508	1-247-722-11	CARBON	5.6K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-247-719-11	CARBON	3.3K	5%	1/4W	
R513A	1-249-461-11	CARBON	18K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R516	1-249-408-11	CARBON	180	5%	1/4W	
R517	1-247-725-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-247-700-11	CARBON	100	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R526	1-247-704-11	CARBON	220	5%	1/4W	F
R527	1-249-460-11	CARBON	15K	5%	1/4W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-247-713-11	CARBON	1K	5%	1/4W	
R533	1-249-393-11	CARBON	10	5%	1/4W	
R534	1-246-543-00	CARBON	820K	5%	1/4W	
R536	1-247-725-11	CARBON	10K	5%	1/4W	
R537	1-249-463-11	CARBON	27K	5%	1/4W	
R538	1-249-441-11	CARBON	100K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R540	1-249-434-11	CARBON	27K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R543	1-249-448-11	CARBON	1.2	5%	1/4W	F
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-247-725-11	CARBON	10K	5%	1/4W	
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R547	1-249-423-11	CARBON	3.3K	5%	1/4W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-215-890-11	METAL OXIDE	470	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-246-545-00	CARBON	1M	5%	1/4W	
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-903-00	CARBON	1M	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R562	1-249-420-11	CARBON	1.8K	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-249-426-11	CARBON	5.6K	5%	1/4W	
R566	1-249-435-11	CARBON	33K	5%	1/4W	
R567	1-249-422-11	CARBON	2.7K	5%	1/4W	
R569	1-249-405-11	CARBON	100	5%	1/4W	
R570	1-249-435-11	CARBON	33K	5%	1/4W	
R575	1-249-435-11	CARBON	33K	5%	1/4W	
R585	1-249-422-11	CARBON	2.7K	5%	1/4W	
R591	1-249-427-11	CARBON	6.8K	5%	1/4W	
R592	1-249-429-11	CARBON	10K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	
R594	1-249-424-11	CARBON	3.9K	5%	1/4W	
R595	1-249-417-11	CARBON	1K	5%	1/4W	
R596	1-249-425-11	CARBON	4.7K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-405-11	CARBON	100	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R802	1-249-474-11	CARBON	1	5%	1/2W	F
R805	1-249-474-11	CARBON	1	5%	1/2W	F
R806	1-249-467-11	CARBON	68K	5%	1/4W	
R807	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R809	1-247-756-11	CARBON	2.2K	5%	1/2W	
R812	1-214-907-00	METAL	56K	1%	1/2W	
R815	1-212-972-00	FUSIBLE	39	5%	1/2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R831	1-249-443-11	CARBON	0.47	5%	1/4W	F
R832	1-247-692-11	CARBON	22	5%	1/4W	F
R833	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R834	1-249-482-11	CARBON	4.7	5%	1/2W	F
R835	1-215-884-11	METAL OXIDE	47	5%	2W	F
R836	1-215-884-11	METAL OXIDE	47	5%	2W	F
R837	1-215-911-11	METAL OXIDE	100	5%	3W	F
R839	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-249-496-11	CARBON	100K	5%	1/2W	
R841	1-247-713-11	CARBON	1K	5%	1/4W	
R842	1-247-713-11	CARBON	1K	5%	1/4W	
R843	1-216-389-11	METAL OXIDE	1	5%	3W	F
R844	1-215-421-00	METAL	1K	1%	1/6W	
R845	1-214-913-00	METAL	100K	1%	1/2W	
R846	1-249-496-11	CARBON	100K	5%	1/2W	
R847	1-249-429-11	CARBON	10K	5%	1/4W	
R848	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R849	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R1501	1-249-462-11	CARBON	22K	5%	1/4W	
R1502	1-249-434-11	CARBON	27K	5%	1/4W	
R1503	1-247-895-00	CARBON	470K	5%	1/4W	
R1504	1-249-435-11	CARBON	33K	5%	1/4W	
R1505	1-249-433-11	CARBON	22K	5%	1/4W	
R1506	1-247-895-00	CARBON	470K	5%	1/4W	
R1507	1-247-895-00	CARBON	470K	5%	1/4W	
R1508	1-249-438-11	CARBON	56K	5%	1/4W	
R1509	1-249-441-11	CARBON	100K	5%	1/4W	
R1510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1511	1-249-417-11	CARBON	1K	5%	1/4W	
R1512	1-247-725-11	CARBON	10K	5%	1/4W	
R1513	1-247-883-00	CARBON	150K	5%	1/4W	
R1514	1-249-417-11	CARBON	1K	5%	1/4W	
R1516	1-249-432-11	CARBON	18K	5%	1/4W	
R1517	1-249-411-11	CARBON	330	5%	1/4W	
R1518	1-249-429-11	CARBON	10K	5%	1/4W	
R1519	1-247-897-11	CARBON	560K	5%	1/4W	
R1520	1-247-897-11	CARBON	560K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1521	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1552	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1553	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R1554	1-249-407-11	CARBON	150	5%	1/4W	
R1602	1-247-722-11	CARBON	5.6K	5%	1/4W	
R1636	1-249-437-11	CARBON	47K	5%	1/4W	
R1637	1-249-437-11	CARBON	47K	5%	1/4W	
R1638	1-249-413-11	CARBON	470	5%	1/4W	
R1639	1-249-441-11	CARBON	100K	5%	1/4W	
R1643	1-247-721-11	CARBON	4.7K	5%	1/4W	
R1644	1-247-718-11	CARBON	2.7K	5%	1/4W	
R1656	1-249-415-11	CARBON	680	5%	1/4W	
R1657	1-249-411-11	CARBON	330	5%	1/4W	
R1658	1-249-411-11	CARBON	330	5%	1/4W	F
R1660	1-215-911-11	METAL OXIDE	100	5%	3W	F
R1720	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1721	1-249-429-11	CARBON	10K	5%	1/4W	
R1722	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1723	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1724	1-249-429-11	CARBON	10K	5%	1/4W	
R1725	1-249-429-11	CARBON	10K	5%	1/4W	
R1726	1-249-441-11	CARBON	100K	5%	1/4W	
R1728	1-215-890-11	METAL OXIDE	470	5%	2W	F
R1729	1-216-449-11	METAL OXIDE	56	5%	2W	F
R1730	1-249-441-11	CARBON	100K	5%	1/4W	
R1731	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R1733	1-249-414-11	CARBON	560	5%	1/4W	
R1734	1-249-393-11	CARBON	10	5%	1/4W	
R1735	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1736	1-247-895-00	CARBON	470K	5%	1/4W	
R1737	1-249-429-11	CARBON	10K	5%	1/4W	
R1738	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1739	1-249-429-11	CARBON	10K	5%	1/4W	
R1740	1-249-435-11	CARBON	33K	5%	1/4W	
R1741	1-249-429-11	CARBON	10K	5%	1/4W	
R1742	1-249-432-11	CARBON	18K	5%	1/4W	
R1743	1-247-895-00	CARBON	470K	5%	1/4W	
R1744	1-249-429-11	CARBON	10K	5%	1/4W	
R1745	1-249-415-11	CARBON	680	5%	1/4W	
R1746	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1747	1-249-433-11	CARBON	22K	5%	1/4W	
R1748	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1749	1-249-441-11	CARBON	100K	5%	1/4W	
R1750	1-249-409-11	CARBON	220	5%	1/4W	
R1751	1-249-429-11	CARBON	10K	5%	1/4W	
R1752	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1754	1-249-429-11	CARBON	10K	5%	1/4W	
R1755	1-249-429-11	CARBON	10K	5%	1/4W	
R1756	1-247-713-11	CARBON	1K	5%	1/4W	
R1757	1-249-413-11	CARBON	470	5%	1/4W	
R1758	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1759	1-215-906-11	METAL OXIDE	15	5%	3W	F
R1760	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1761	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1762	1-215-858-00	METAL OXIDE	15	5%	1W	F
R1763	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1764	1-249-409-11	CARBON	220	5%	1/4W	
R1774	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1775	1-249-429-11	CARBON	10K	5%	1/4W	
R1776	1-247-706-11	CARBON	330	5%	1/4W	
R1778	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1779	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1780	1-249-437-11	CARBON	47K	5%	1/4W	
R1781	1-249-427-11	CARBON	6.8K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1787	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1792	1-249-435-11	CARBON	33K	5%	1/4W	
R1794	1-249-419-11	CARBON	1.5K	5%	1/4W	
R5113	1-249-466-11	CARBON	56K	5%	1/4W	
R5501	1-247-725-11	CARBON	10K	5%	1/4W	
R5502	1-249-417-11	CARBON	1K	5%	1/4W	
R5503	1-249-429-11	CARBON	10K	5%	1/4W	
R5504	1-249-459-11	CARBON	12K	5%	1/4W	
R5505	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
R5506	1-249-417-11	CARBON	1K	5%	1/4W	
R5508	1-247-700-11	CARBON	100	5%	1/4W	
R5511	1-249-429-11	CARBON	10K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV1501	1-238-023-11	RES, ADJ, CARBON 470K
RV1502	1-238-016-11	RES, ADJ, CARBON 10K
RV1503	1-238-017-11	RES, ADJ, CARBON 22K
RV1504	1-238-012-11	RES, ADJ, CARBON 1K
RV1505	1-238-023-11	RES, ADJ, CARBON 470K
RV1506	1-238-017-11	RES, ADJ, CARBON 22K
RV1507	1-238-009-11	RES, ADJ, CARBON 220
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K
RV1509	1-238-023-11	RES, ADJ, CARBON 470K
RV1701	1-238-012-11	RES, ADJ, CARBON 1K
RV1702	1-238-016-11	RES, ADJ, CARBON 10K
RV1703	1-238-012-11	RES, ADJ, CARBON 1K
RV1704	1-238-016-11	RES, ADJ, CARBON 10K
RV1705	1-238-016-11	RES, ADJ, CARBON 10K

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG801	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T801 ⚠	1-437-090-21	HDT
T802 ⚠	1-439-418-11	TRANSFORMER ASSY, FLYBACK
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)
T804	1-459-957-11	TRANSFORMER
T805	1-421-794-11	TRANSFORMER, FERRITE (PMT)

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*A-1347-042-A V BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-477-11	ELECT	47MF	20%	16V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-124-120-11	ELECT	220MF	20%	16V
C07	1-136-177-00	FILM	1MF	5%	50V
C08	1-102-951-00	CERAMIC	15PF	5%	50V
C09	1-102-074-00	CERAMIC	0.001MF	10%	50V
C10	1-102-824-00	CERAMIC	470PF	5%	50V
C11	1-106-375-12	MYLAR	0.022MF	10%	100V
C12	1-102-980-00	CERAMIC	270PF	5%	50V
C13	1-102-973-00	CERAMIC	100PF	5%	50V
C14	1-102-951-00	CERAMIC	15PF	5%	50V
C15	1-102-961-00	CERAMIC	27PF	5%	50V

V **H2**

REF.NO.	PART NO.	DESCRIPTION				REMARK
C16	1-106-367-00	MYLAR	0.01MF	10%	100V	
C17	1-136-161-00	MYLAR	0.047MF	10%	50V	
C18	1-102-953-00	CERAMIC	18PF	5%	50V	
C19	1-136-161-00	MYLAR	0.047MF	10%	50V	
C20	1-102-978-00	CERAMIC	220PF	5%	50V	
C21	1-136-163-00	MYLAR	0.068MF	10%	50V	
C24	1-126-101-11	ELECT	100MF	20%	16V	
C25	1-124-477-11	ELECT	47MF	20%	16V	
C27	1-102-820-00	CERAMIC	330PF	5%	50V	
C28	1-102-116-00	CERAMIC	680PF	10%	50V	
C29	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-101-884-00	CERAMIC	56PF	5%	50V	
C51	1-136-165-00	MYLAR	0.1MF	10%	50V	
C52	1-136-165-00	MYLAR	0.1MF	10%	50V	
C53	1-136-165-00	MYLAR	0.1MF	10%	50V	
C54	1-136-165-00	MYLAR	0.1MF	10%	50V	
C55	1-136-165-00	MYLAR	0.1MF	10%	50V	
C56	1-136-165-00	MYLAR	0.1MF	10%	50V	
C57	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C58	1-102-074-00	CERAMIC	0.001MF	10%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNV01	*1-564-506-11	PLUG, CONNECTOR 3P
CNV02	*1-564-508-11	PLUG, CONNECTOR 5P
CNV03	*1-564-509-11	PLUG, CONNECTOR 6P
CNV04	*1-564-506-11	PLUG, CONNECTOR 3P
CNV05	*1-564-505-11	PLUG, CONNECTOR 2P

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CP01	1-235-977-11	NETWORK, RES, THICK FILM
CP02	1-235-977-11	NETWORK, RES, THICK FILM
CP03	1-232-541-11	COMPOSITION CIRCUIT BLOCK

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION
CT01	1-141-245-00	TRIMMER, CERAMIC

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D01	8-719-109-89	DIODE RD5.6ES-B2
D02	8-719-110-36	DIODE RD13ES-B2
D03	8-719-911-19	DIODE 1SS119
D04	8-719-109-69	DIODE RD3.6ES-B2

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC01	8-759-972-41	IC MAB8461P-W136
IC02	8-759-972-96	IC SAA5231-V6
IC03	8-759-013-21	IC SDA5241
IC04	8-759-113-01	IC UPD4364CX-15L

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L01	1-408-411-00	INDUCTOR	15UH
L02	1-410-468-11	INDUCTOR	6.8UH
L03	1-410-468-11	INDUCTOR	6.8UH
L04	1-410-468-11	INDUCTOR	6.8UH
L05	1-410-468-11	INDUCTOR	6.8UH
L06	1-410-468-11	INDUCTOR	6.8UH
L15	1-410-468-11	INDUCTOR	6.8UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q01	8-729-808-76	TRANSISTOR 2SD1761-E
Q02	8-729-177-42	TRANSISTOR 2SD774-3
Q03	8-729-900-80	TRANSISTOR DTC114ES
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q05	8-729-177-42	TRANSISTOR 2SD774-3
Q06	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q07	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q09	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R01	1-215-867-00	METAL OXIDE	470	5%	1W	F
R02	1-249-425-11	CARBON	4.7K	5%	1/4W	
R04	1-215-867-00	METAL OXIDE	470	5%	1W	F
R05	1-247-700-11	CARBON	100	5%	1/4W	
R06	1-249-417-11	CARBON	1K	5%	1/4W	
R07	1-249-405-11	CARBON	100	5%	1/4W	
R08	1-249-411-11	CARBON	330	5%	1/4W	
R09	1-249-438-11	CARBON	56K	5%	1/4W	
R13	1-249-405-11	CARBON	100	5%	1/4W	
R14	1-249-405-11	CARBON	100	5%	1/4W	
R15	1-247-903-00	CARBON	1M	5%	1/4W	
R16	1-249-425-11	CARBON	4.7K	5%	1/4W	
R17	1-249-417-11	CARBON	1K	5%	1/4W	
R18	1-249-425-11	CARBON	4.7K	5%	1/4W	
R20	1-249-414-11	CARBON	560	5%	1/4W	
R27	1-249-408-11	CARBON	180	5%	1/4W	
R28	1-249-408-11	CARBON	180	5%	1/4W	
R29	1-249-408-11	CARBON	180	5%	1/4W	
R30	1-247-713-11	CARBON	1K	5%	1/4W	
R31	1-247-713-11	CARBON	1K	5%	1/4W	
R32	1-247-713-11	CARBON	1K	5%	1/4W	
R34	1-249-417-11	CARBON	1K	5%	1/4W	
R37	1-249-405-11	CARBON	100	5%	1/4W	
R38	1-249-416-11	CARBON	820	5%	1/4W	
R40	1-249-425-11	CARBON	4.7K	5%	1/4W	
R41	1-249-413-11	CARBON	470	5%	1/4W	
R43	1-249-420-11	CARBON	1.8K	5%	1/4W	
R45	1-247-713-11	CARBON	1K	5%	1/4W	
R47	1-247-699-11	CARBON	82	5%	1/4W	
R60	1-247-713-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV01	1-228-991-00	RES, ADJ, CARBON 2.2K
	*3-710-578-01	COVER, VOLUME, 6 MOLD; RV01

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X01	1-527-734-00	VIBRATOR, CRYSTAL
X02	1-567-905-11	VIBRATOR, CRYSTAL
X03	1-567-686-11	OSCILLATOR, CERAMIC

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*1-630-234-11 H2 BOARD
****

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNH21	*1-564-521-11	PLUG, CONNECTOR 6P

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S1	1-554-937-11	SWITCH, KEY BOARD	
S2	1-554-937-11	SWITCH, KEY BOARD	
S3	1-554-937-11	SWITCH, KEY BOARD	
S4	1-554-937-11	SWITCH, KEY BOARD	
S5	1-554-937-11	SWITCH, KEY BOARD	
S6	1-554-937-11	SWITCH, KEY BOARD	

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*1-630-233-11 H1 BOARD
****

<CONNECTOR>

CNH11	*1-564-522-11	PLUG, CONNECTOR 7P

<DIODE>

D1	8-719-948-31	DIODE LD-201VR
	*4-393-210-01	HOLDER, LED; D1
D2	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D2
D3	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D3
D4	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D4

<IC>

IC1	8-741-139-80	IC BX-1398

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*A-1385-054-A K BOARD, COMPLETE
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*4-377-007-01 CASE (UPPER LID), SHIELD
*4-377-008-01 CASE (BOTTOM LID), SHIELD
*4-377-009-01 CASE (MAIN), SHIELD

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C001	1-102-824-00	CERAMIC	470PF	5%	50V
C002	1-130-477-00	MYLAR	0.0033MF	10%	50V
C003	1-124-910-11	ELECT	47MF	20%	50V
C004	1-130-477-00	MYLAR	0.0033MF	10%	50V
C005	1-102-963-00	CERAMIC	33PF	5%	50V
C006	1-102-959-00	CERAMIC	22PF	5%	50V
C008	1-124-927-11	ELECT	4.7MF	20%	50V
C009	1-124-927-11	ELECT	4.7MF	20%	50V
C010	1-124-927-11	ELECT	4.7MF	20%	50V
C011	1-124-927-11	ELECT	4.7MF	20%	50V
C012	1-124-910-11	ELECT	47MF	20%	50V
C013	1-102-129-00	CERAMIC	0.01MF	10%	50V
C014	1-102-980-00	CERAMIC	270PF	5%	50V
C015	1-136-165-00	MYLAR	0.1MF	10%	50V
C016	1-136-165-00	MYLAR	0.1MF	10%	50V
C017	1-101-361-00	CERAMIC	150PF	5%	50V
C018	1-124-463-00	ELECT	0.1MF	20%	50V
C019	1-124-910-11	ELECT	47MF	20%	50V
C020	1-124-910-11	ELECT	47MF	20%	50V
C021	1-124-910-11	ELECT	47MF	20%	50V
C022	1-124-910-11	ELECT	47MF	20%	50V
C023	1-124-910-11	ELECT	47MF	20%	50V
C024	1-124-910-11	ELECT	47MF	20%	50V
C025	1-102-973-00	CERAMIC	100PF	5%	50V
C026	1-124-927-11	ELECT	4.7MF	20%	50V
C027	1-102-114-00	CERAMIC	470PF	10%	50V
C028	1-102-114-00	CERAMIC	470PF	10%	50V
C201	1-124-902-00	ELECT	0.47MF	20%	50V
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-902-00	ELECT	0.47MF	20%	50V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C205	1-136-155-00	MYLAR	0.015MF	10%	50V
C206	1-136-155-00	MYLAR	0.015MF	10%	50V
C207	1-136-159-00	MYLAR	0.033MF	10%	50V
C208	1-136-157-00	MYLAR	0.022MF	10%	50V
C209	1-136-153-00	MYLAR	0.01MF	10%	50V
C210	1-136-173-00	FILM	0.47MF	5%	50V
C211	1-136-162-00	MYLAR	0.056MF	10%	50V
C212	1-130-477-00	MYLAR	0.0033MF	10%	50V
C213	1-136-157-00	MYLAR	0.022MF	10%	50V
C214	1-130-481-00	MYLAR	0.0068MF	10%	50V
C215	1-124-910-11	ELECT	47MF	20%	50V
C216	1-102-114-00	CERAMIC	470PF	10%	50V
C217	1-102-114-00	CERAMIC	470PF	10%	50V
C218	1-123-875-11	ELECT	10MF	20%	50V
C219	1-136-173-00	FILM	0.47MF	5%	50V
C220	1-136-162-00	MYLAR	0.056MF	10%	50V
C221	1-130-477-00	MYLAR	0.0033MF	10%	50V
C222	1-136-157-00	MYLAR	0.022MF	10%	50V
C223	1-130-481-00	MYLAR	0.0068MF	10%	50V
C224	1-124-927-11	ELECT	4.7MF	20%	50V
C225	1-124-910-11	ELECT	47MF	20%	50V
C227	1-124-499-11	ELECT	1MF	20%	50V
C228	1-123-875-11	ELECT	10MF	20%	50V
C229	1-124-463-00	ELECT	0.1MF	20%	50V
C230	1-123-875-11	ELECT	10MF	20%	50V
C231	1-136-169-00	MYLAR	0.22MF	10%	50V
C232	1-124-637-11	ELECT	1000MF	20%	50V
C233	1-124-927-11	ELECT	4.7MF	20%	50V
C234	1-124-910-11	ELECT	47MF	20%	50V
C236	1-124-499-11	ELECT	1MF	20%	50V
C237	1-123-875-11	ELECT	10MF	20%	50V
C238	1-124-463-00	ELECT	0.1MF	20%	50V
C239	1-123-875-11	ELECT	10MF	20%	50V
C240	1-136-169-00	MYLAR	0.22MF	10%	50V
C241	1-124-637-11	ELECT	1000MF	20%	50V
C242	1-124-637-11	ELECT	1000MF	20%	50V
C243	1-124-902-00	ELECT	0.47MF	20%	50V
C244	1-124-902-00	ELECT	0.47MF	20%	50V
C245	1-124-478-11	ELECT	100MF	20%	25V
C246	1-124-478-11	ELECT	100MF	20%	25V
C247	1-102-074-00	CERAMIC	0.001MF	10%	50V
C248	1-102-074-00	CERAMIC	0.001MF	10%	50V
C249	1-130-497-00	MYLAR	0.15MF	5%	50V
C250	1-130-497-00	MYLAR	0.15MF	5%	50V
C251	1-102-030-00	CERAMIC	330PF	10%	500V
C252	1-102-030-00	CERAMIC	330PF	10%	500V
C253	1-124-917-11	ELECT	33MF	20%	50V
C254	1-124-917-11	ELECT	33MF	20%	50V

<FILTER>

CF001	1-577-082-11	VIBRATOR, CERAMIC
CP001	1-233-153-11	COMPOSITION CIRCUIT BLOCK

K

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNK1	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNK2	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNK3	*1-564-515-11	PLUG, CONNECTOR 12P	
CNK4	*1-564-510-11	PLUG, CONNECTOR 7P	
CNK5	*1-564-509-11	PLUG, CONNECTOR 6P	
CNK6	*1-564-513-11	PLUG, CONNECTOR 10P	
CNK7	*1-564-508-11	PLUG, CONNECTOR 5P	
CNK8	*1-564-506-11	PLUG, CONNECTOR 3P	
CNK9	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNK10	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNK11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNK12	*1-564-881-11	PLUG, CONNECTOR 4P	
CNK13	*1-564-880-31	PLUG, CONNECTOR 3P	
CNK21	*1-564-505-11	PLUG, CONNECTOR 2P	
		<DIODE>	
D001	8-719-109-71	DIODE RD3.9ES-B1	
D002	8-719-911-19	DIODE 1SS119	
D003	8-719-911-19	DIODE 1SS119	
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	
D007	8-719-911-19	DIODE 1SS119	
D008	8-719-109-88	DIODE RD5.6ES-B1	
D009	8-719-109-88	DIODE RD5.6ES-B1	
D010	8-719-109-88	DIODE RD5.6ES-B1	
D011	8-719-109-88	DIODE RD5.6ES-B1	
D203	8-719-110-14	DIODE RD9.1ES-B3	
D204	8-719-911-19	DIODE 1SS119	
D205	8-719-911-19	DIODE 1SS119	
D206	8-719-110-14	DIODE RD9.1ES-B3	
D207	8-719-911-19	DIODE 1SS119	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
		<IC>	
IC001	8-759-632-66	IC M37100M8-714SP	
IC002	8-759-972-43	IC PCD8582	
IC003	8-759-972-43	IC PCD8582	
IC004	8-759-157-40	IC UPC574J	
IC006	8-759-604-35	IC M5F78M05	
IC201	8-759-013-17	IC TDA6200	
IC202	8-759-922-40	IC LM1875T	
IC203	8-759-922-40	IC LM1875T	
		<COIL>	
L001	1-408-413-00	INDUCTOR 22UH	
L002	1-410-478-11	INDUCTOR 47UH	
		<TRANSISTOR>	
Q001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q004	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q005	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q007	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q008	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q010	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q011	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q206	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q208	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q209	8-729-900-89	TRANSISTOR DTC144ES	
		<RESISTOR>	
R001	1-249-431-11	CARBON 15K 5% 1/4W	
R002	1-249-413-11	CARBON 470 5% 1/4W	
R003	1-249-425-11	CARBON 4.7K 5% 1/4W	
R004	1-249-429-11	CARBON 10K 5% 1/4W	
R005	1-249-429-11	CARBON 10K 5% 1/4W	
R006	1-249-429-11	CARBON 10K 5% 1/4W	
R007	1-249-429-11	CARBON 10K 5% 1/4W	
R008	1-249-437-11	CARBON 47K 5% 1/4W	
R009	1-249-419-11	CARBON 1.5K 5% 1/4W	
R010	1-247-708-11	CARBON 470 5% 1/4W	
R011	1-247-708-11	CARBON 470 5% 1/4W	
R012	1-249-429-11	CARBON 10K 5% 1/4W	
R013	1-249-431-11	CARBON 15K 5% 1/4W	
R014	1-249-413-11	CARBON 470 5% 1/4W	
R015	1-249-413-11	CARBON 470 5% 1/4W	
R016	1-249-413-11	CARBON 470 5% 1/4W	
R017	1-249-411-11	CARBON 330 5% 1/4W	
R018	1-249-429-11	CARBON 10K 5% 1/4W	
R020	1-247-725-11	CARBON 10K 5% 1/4W	
R021	1-249-417-11	CARBON 1K 5% 1/4W	
R022	1-249-417-11	CARBON 1K 5% 1/4W	
R023	1-249-429-11	CARBON 10K 5% 1/4W	
R024	1-249-429-11	CARBON 10K 5% 1/4W	
R025	1-249-429-11	CARBON 10K 5% 1/4W	
R026	1-249-465-11	CARBON 47K 5% 1/4W	
R027	1-249-465-11	CARBON 47K 5% 1/4W	
R028	1-249-465-11	CARBON 47K 5% 1/4W	
R029	1-249-409-11	CARBON 220 5% 1/4W	
R032	1-249-429-11	CARBON 10K 5% 1/4W	
R033	1-249-429-11	CARBON 10K 5% 1/4W	
R034	1-249-429-11	CARBON 10K 5% 1/4W	
R035	1-249-431-11	CARBON 15K 5% 1/4W	
R037	1-249-433-11	CARBON 22K 5% 1/4W	
R038	1-249-459-11	CARBON 12K 5% 1/4W	
R039	1-249-459-11	CARBON 12K 5% 1/4W	
R040	1-247-721-11	CARBON 4.7K 5% 1/4W	
R041	1-249-435-11	CARBON 33K 5% 1/4W	
R042	1-249-461-11	CARBON 18K 5% 1/4W	
R043	1-249-417-11	CARBON 1K 5% 1/4W	
R044	1-249-417-11	CARBON 1K 5% 1/4W	
R045	1-249-417-11	CARBON 1K 5% 1/4W	
R046	1-249-417-11	CARBON 1K 5% 1/4W	
R047	1-249-417-11	CARBON 1K 5% 1/4W	
R048	1-247-725-11	CARBON 10K 5% 1/4W	
R049	1-249-431-11	CARBON 15K 5% 1/4W	
R050	1-249-425-11	CARBON 4.7K 5% 1/4W	
R051	1-249-425-11	CARBON 4.7K 5% 1/4W	
R052	1-247-708-11	CARBON 470 5% 1/4W	
R053	1-249-441-11	CARBON 100K 5% 1/4W	
R054	1-249-435-11	CARBON 33K 5% 1/4W	
R055	1-249-423-11	CARBON 3.3K 5% 1/4W	
R056	1-249-417-11	CARBON 1K 5% 1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R057	1-247-725-11	CARBON	10K	5%	1/4W	
R058	1-247-725-11	CARBON	10K	5%	1/4W	
R059	1-247-725-11	CARBON	10K	5%	1/4W	
R060	1-249-417-11	CARBON	1K	5%	1/4W	
R061	1-249-409-11	CARBON	220	5%	1/4W	
R062	1-249-429-11	CARBON	10K	5%	1/4W	
R063	1-249-429-11	CARBON	10K	5%	1/4W	
R064	1-249-429-11	CARBON	10K	5%	1/4W	
R065	1-249-436-11	CARBON	39K	5%	1/4W	
R066	1-249-431-11	CARBON	15K	5%	1/4W	
R067	1-249-409-11	CARBON	220	5%	1/4W	
R068	1-249-423-11	CARBON	3.3K	5%	1/4W	
R069	1-249-425-11	CARBON	4.7K	5%	1/4W	
R070	1-249-423-11	CARBON	3.3K	5%	1/4W	
R071	1-249-429-11	CARBON	10K	5%	1/4W	
R072	1-249-437-11	CARBON	47K	5%	1/4W	
R073	1-249-411-11	CARBON	330	5%	1/4W	
R074	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R075	1-249-429-11	CARBON	10K	5%	1/4W	
R077	1-247-725-11	CARBON	10K	5%	1/4W	
R078	1-249-425-11	CARBON	4.7K	5%	1/4W	
R079	1-249-417-11	CARBON	1K	5%	1/4W	
R080	1-249-417-11	CARBON	1K	5%	1/4W	
R081	1-249-429-11	CARBON	10K	5%	1/4W	
R082	1-249-417-11	CARBON	1K	5%	1/4W	
R083	1-249-435-11	CARBON	33K	5%	1/4W	
R084	1-249-433-11	CARBON	22K	5%	1/4W	
R087	1-249-429-11	CARBON	10K	5%	1/4W	
R088	1-247-725-11	CARBON	10K	5%	1/4W	
R089	1-249-429-11	CARBON	10K	5%	1/4W	
R090	1-247-725-11	CARBON	10K	5%	1/4W	
R091	1-249-411-11	CARBON	330	5%	1/4W	
R092	1-247-725-11	CARBON	10K	5%	1/4W	
R093	1-247-718-11	CARBON	2.7K	5%	1/4W	
R094	1-249-461-11	CARBON	18K	5%	1/4W	
R095	1-247-724-11	CARBON	8.2K	5%	1/4W	
R096	1-249-460-11	CARBON	15K	5%	1/4W	
R097	1-247-725-11	CARBON	10K	5%	1/4W	
R098	1-249-417-11	CARBON	1K	5%	1/4W	
R099	1-247-719-11	CARBON	3.3K	5%	1/4W	
R202	1-247-704-11	CARBON	220	5%	1/4W	
R203	1-249-431-11	CARBON	15K	5%	1/4W	
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-433-11	CARBON	22K	5%	1/4W	
R206	1-249-433-11	CARBON	22K	5%	1/4W	
R207	1-249-431-11	CARBON	15K	5%	1/4W	
R208	1-249-433-11	CARBON	22K	5%	1/4W	
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-441-11	CARBON	100K	5%	1/4W	
R211	1-249-431-11	CARBON	15K	5%	1/4W	
R212	1-249-423-11	CARBON	3.3K	5%	1/4W	
R213	1-249-435-11	CARBON	33K	5%	1/4W	
R214	1-247-704-11	CARBON	220	5%	1/4W	
R215	1-247-704-11	CARBON	220	5%	1/4W	
R216	1-247-704-11	CARBON	220	5%	1/4W	
R217	1-247-704-11	CARBON	220	5%	1/4W	
R218	1-247-713-11	CARBON	1K	5%	1/4W	
R219	1-247-713-11	CARBON	1K	5%	1/4W	
R220	1-249-431-11	CARBON	15K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W	
R222	1-249-435-11	CARBON	33K	5%	1/4W	
R223	1-249-441-11	CARBON	100K	5%	1/4W	
R224	1-249-441-11	CARBON	100K	5%	1/4W	
R225	1-249-425-11	CARBON	4.7K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R226	1-249-413-11	CARBON	470	5%	1/4W	
R231	1-249-469-11	CARBON	100K	5%	1/4W	
R232	1-249-433-11	CARBON	22K	5%	1/4W	
R233	1-249-433-11	CARBON	22K	5%	1/4W	
R234	1-249-429-11	CARBON	10K	5%	1/4W	
R235	1-247-891-00	CARBON	330K	5%	1/4W	
R237 ⚠	1-212-934-51	FUSIBLE	1	5%	1/2W	F
R238	1-249-441-11	CARBON	100K	5%	1/4W	
R239	1-249-441-11	CARBON	100K	5%	1/4W	
R240	1-249-425-11	CARBON	4.7K	5%	1/4W	
R241	1-249-413-11	CARBON	470	5%	1/4W	
R246	1-249-469-11	CARBON	100K	5%	1/4W	
R247	1-249-433-11	CARBON	22K	5%	1/4W	
R248	1-249-433-11	CARBON	22K	5%	1/4W	
R249	1-249-429-11	CARBON	10K	5%	1/4W	
R250	1-247-891-00	CARBON	330K	5%	1/4W	
R252 ⚠	1-212-934-51	FUSIBLE	1	5%	1/2W	F
R253	1-249-437-11	CARBON	47K	5%	1/4W	
R254	1-249-437-11	CARBON	47K	5%	1/4W	
R255	1-249-419-11	CARBON	1.5K	5%	1/4W	
R256	1-249-439-11	CARBON	68K	5%	1/4W	
R257	1-247-715-11	CARBON	1.5K	5%	1/4W	
R258	1-249-439-11	CARBON	68K	5%	1/4W	
R259	1-249-469-11	CARBON	100K	5%	1/4W	
R260	1-249-469-11	CARBON	100K	5%	1/4W	
R261	1-249-437-11	CARBON	47K	5%	1/4W	
R262	1-249-437-11	CARBON	47K	5%	1/4W	
R263	1-249-441-11	CARBON	100K	5%	1/4W	
R264	1-249-441-11	CARBON	100K	5%	1/4W	
R265	1-249-423-11	CARBON	3.3K	5%	1/4W	
R266	1-249-423-11	CARBON	3.3K	5%	1/4W	
R270	1-249-418-11	CARBON	1.2K	5%	1/4W	
R271	1-249-418-11	CARBON	1.2K	5%	1/4W	

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*A-1388-093-A J BOARD, COMPLETE
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<CAPACITOR>

C1401	1-124-910-11	ELECT	47MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-124-910-11	ELECT	47MF	20%	50V
C1404	1-124-910-11	ELECT	47MF	20%	50V
C1405	1-124-910-11	ELECT	47MF	20%	50V
C1406	1-126-101-11	ELECT	100MF	20%	16V
C1408	1-124-902-00	ELECT	0.47MF	20%	50V
C1409	1-102-824-00	CERAMIC	470PF	5%	50V
C1410	1-124-902-00	ELECT	0.47MF	20%	50V
C1411	1-102-824-00	CERAMIC	470PF	5%	50V
C1412	1-124-902-00	ELECT	0.47MF	20%	50V
C1413	1-124-902-00	ELECT	0.47MF	20%	50V
C1414	1-124-910-11	ELECT	47MF	20%	50V
C1415	1-101-003-00	CERAMIC	0.0047MF		50V
C1416	1-101-003-00	CERAMIC	0.0047MF		50V
C1417	1-124-910-11	ELECT	47MF	20%	50V
C1418	1-124-902-00	ELECT	0.47MF	20%	50V
C1419	1-126-101-11	ELECT	100MF	20%	16V
C1420	1-124-902-00	ELECT	0.47MF	20%	50V
C1421	1-124-902-00	ELECT	0.47MF	20%	50V
C1422	1-124-902-00	ELECT	0.47MF	20%	50V
C1425	1-101-003-00	CERAMIC	0.0047MF		50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C1426	1-102-824-00	CERAMIC	470PF	5%	50V	
C1427	1-102-824-00	CERAMIC	470PF	5%	50V	
C1428	1-101-003-00	CERAMIC	0.0047MF		50V	
C1431	1-124-910-11	ELECT	47MF	20%	50V	
C1432	1-101-006-00	CERAMIC	0.047MF		50V	
C1433	1-101-006-00	CERAMIC	0.047MF		50V	
C1434	1-101-006-00	CERAMIC	0.047MF		50V	
C1435	1-101-006-00	CERAMIC	0.047MF		50V	
C1436	1-101-006-00	CERAMIC	0.047MF		50V	
C1437	1-101-006-00	CERAMIC	0.047MF		50V	
C1438	1-101-006-00	CERAMIC	0.047MF		50V	
C1439	1-101-006-00	CERAMIC	0.047MF		50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT
CN1402	1-535-741-11	TERMINAL, S
CN1403	1-565-838-11	PIN JACK BLOCK 2P
CNJ1	1-568-016-11	SOCKET 21P
CNJ2	1-568-016-11	SOCKET 21P
CNJ3	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P
CNJ4	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P
CNJ5	*1-566-693-11	PIN, CONNECTOR 2P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1401	8-719-110-14	DIODE RD9.1ES-B3
D1402	8-719-110-14	DIODE RD9.1ES-B3
D1403	8-719-110-14	DIODE RD9.1ES-B3
D1404	8-719-110-14	DIODE RD9.1ES-B3
D1405	8-719-110-14	DIODE RD9.1ES-B3
D1406	8-719-110-14	DIODE RD9.1ES-B3
D1407	8-719-110-14	DIODE RD9.1ES-B3
D1408	8-719-110-14	DIODE RD9.1ES-B3
D1409	8-719-110-14	DIODE RD9.1ES-B3
D1410	8-719-110-14	DIODE RD9.1ES-B3
D1411	8-719-110-14	DIODE RD9.1ES-B3
D1412	8-719-110-14	DIODE RD9.1ES-B3
D1413	8-719-110-14	DIODE RD9.1ES-B3
D1414	8-719-110-14	DIODE RD9.1ES-B3

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1401	8-752-032-27	IC CXA1114P
IC1402	8-759-946-32	IC TEA2014A

<COIL>

REF.NO.	PART NO.	DESCRIPTION
L1401	1-459-407-00	COIL, FERRITE CHOKE
L1402	1-459-407-00	COIL, FERRITE CHOKE
L1403	1-459-407-00	COIL, FERRITE CHOKE
L1404	1-459-407-00	COIL, FERRITE CHOKE

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q1402	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q1403	8-729-119-76	TRANSISTOR 2SA1175-HFE

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1401	1-249-409-11	CARBON	220	5%	1/4W	
R1402	1-249-409-11	CARBON	220	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-403-11	CARBON	68	5%	1/4W	
R1405	1-249-413-11	CARBON	470	5%	1/4W	
R1406	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1407	1-249-417-11	CARBON	1K	5%	1/4W	
R1408	1-247-804-11	CARBON	75	5%	1/4W	
R1409	1-249-409-11	CARBON	220	5%	1/4W	
R1410	1-249-409-11	CARBON	220	5%	1/4W	
R1411	1-249-413-11	CARBON	470	5%	1/4W	
R1412	1-249-417-11	CARBON	1K	5%	1/4W	
R1413	1-247-688-11	CARBON	10	5%	1/4W	F
R1414	1-249-409-11	CARBON	220	5%	1/4W	
R1415	1-249-404-00	CARBON	82	5%	1/4W	
R1416	1-249-417-11	CARBON	1K	5%	1/4W	
R1417	1-247-713-11	CARBON	1K	5%	1/4W	
R1418	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1419	1-249-429-11	CARBON	10K	5%	1/4W	
R1420	1-249-417-11	CARBON	1K	5%	1/4W	
R1421	1-249-434-11	CARBON	27K	5%	1/4W	
R1422	1-249-434-11	CARBON	27K	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	
R1425	1-249-434-11	CARBON	27K	5%	1/4W	
R1426	1-249-434-11	CARBON	27K	5%	1/4W	
R1427	1-249-434-11	CARBON	27K	5%	1/4W	
R1428	1-249-409-11	CARBON	220	5%	1/4W	
R1429	1-249-409-11	CARBON	220	5%	1/4W	
R1430	1-249-440-11	CARBON	82K	5%	1/4W	
R1431	1-247-738-11	CARBON	82	5%	1/2W	F
R1432	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1433	1-247-725-11	CARBON	10K	5%	1/4W	
R1434	1-247-804-11	CARBON	75	5%	1/4W	
R1435	1-247-895-00	CARBON	470K	5%	1/4W	
R1436	1-247-895-00	CARBON	470K	5%	1/4W	
R1437	1-247-804-11	CARBON	75	5%	1/4W	
R1438	1-249-404-00	CARBON	82	5%	1/4W	
R1439	1-249-404-00	CARBON	82	5%	1/4W	
R1440	1-249-404-00	CARBON	82	5%	1/4W	
R1441	1-247-895-00	CARBON	470K	5%	1/4W	
R1442	1-247-895-00	CARBON	470K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1444	1-249-413-11	CARBON	470	5%	1/4W	
R1445	1-249-437-11	CARBON	47K	5%	1/4W	
R1446	1-249-437-11	CARBON	47K	5%	1/4W	
R1447	1-249-437-11	CARBON	47K	5%	1/4W	
R1448	1-247-704-11	CARBON	220	5%	1/4W	
R1449	1-247-804-11	CARBON	75	5%	1/4W	
R1450	1-249-415-11	CARBON	680	5%	1/4W	
R1451	1-249-415-11	CARBON	680	5%	1/4W	
R1452	1-249-408-11	CARBON	180	5%	1/4W	
R1453	1-249-408-11	CARBON	180	5%	1/4W	

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION
S901	⚠ 1-571-877-11	SWITCH, PUSH (AC POWER)
	⚠ 1-574-745-11	CORD, POWER (WITH CONNECTOR)
	⚠ 1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)
	⚠ 1-451-315-11	DEFLECTION YOKE (Y34FXA)
	1-452-032-00	MAGNET, DISK; 10MM ϕ
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
L901	⚠ 1-426-433-11	COIL, DEMAGNETIZATION
V901	⚠ 8-733-721-05	PICTURE TUBE (A80JYV10X)

ACCESSORIES AND PACKING MATERIALS

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PART NO.	DESCRIPTION	REMARK
A-1470-881-A	COMMANDER ASSY (RM-684)	
*X-4391-921-1	PLATE ASSY, BOTTOM	
1-556-248-00	CORD (WITH PLUG)	
3-750-002-11	MANUAL, INSTRUCTION	
*4-388-135-01	BAG, PROTECTION	
*4-391-970-01	BAND	
*4-392-445-01	CUSHION (UPPER) (ASSY)	
*4-392-446-01	CUSHION (LOWER) (ASSY)	
*4-392-451-01	HOLDER (ASSY)	
*4-393-227-01	INDIVIDUAL CARTON	